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AUG 18 1983

FACULTY RESEARCHERS MAY NOW FLY IN UNIVERSITY AIRCRAFT TO WASHINGTON

If you're off to Washington, D.C., on a research mission, you may now fly the friendly skies of University aircraft, compliments of the Office of University Research.

But, says OUR director Stan Nicholas, plan to drop your name into the research hat soon to reserve your seat. Flights are scheduled for the first Tuesday of each month from September 1983 through June 1984.

The flight service, which will accommodate seven faculty members each trip, has the endorsement of both President

Bill Atchley and Provost David Maxwell, who see the plan as an enhancement of the University's research program.

"Faculty can use such trips to review new, existing or preliminary proposals," says Nicholas, "but proposals must be prepared in accordance with the usual University procedures."

To reserve a seat, send OUR a memo stating your desired flight along with a copy of your proposal or pre-proposal -- unless it is already on file in the research office. Include, too, a copy of any correspondence, letter or memo from the sponsoring agency in Washington (or a letter from your department head)

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HONORARY DEGREE RECIPIENTS -- S.C. State College President M. Maceo Nance, right, and veteran state Sen. James M. Waddell received honorary degrees Aug. 6, during the University's summer commencement exercises. Nance was awarded the honorary Doctor of Humanities degree for his many contributions to higher education. Waddell was awarded the honorary Doctor of Laws degree for his numerous accomplishments as a legislator and public servant. Approximately 500 graduate and undergraduate degrees were awarded during the 11 a.m. ceremony in Littlejohn Coliseum.

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confirming the meeting taking place on your research project.

Nicholas emphasizes that requests must be made in writing since "records will be kept, and reservations will be made on a first-written-contact basis."

"If a particular flight is filled," he says, "we will inform faculty of other open flights."

Should vacancies occur, he says, OUR will seek to fill them with "employees whose responsibilities include the furthering of research activities on a multi-departmental basis."

"If a particular flight isn't filled," says Nicholas, "I would call the director of the Energy Research and Development Center, for instance, and see if he would need to go to Washington, or I would call the director of the Energy and Resource Development Institute, or the associate deans of research -- anyone involved in the total multi-departmental responsibilities."

And if a particular flight still isn't filled?

"I think we'll have enough people interested in research to fill every flight," says Nicholas. "At least I would hope so."

As for the number of trips a person may make during the year, Nicholas says, "We'll just have to wait and see what the response is before we address that, but I would hope that the response is such that we would want to consider having more flights."

Persons flying with OUR can expect the following schedule: leave Oconee County Airport at 7 a.m. and arrive in Washington at 9 a.m.; leave Washington at 4 p.m. and arrive at Oconee at 6 p.m.

OUR will pay only air travel costs,

says Nicholas, not other costs such as ground transportation and meals. For more information on the flight plan, call OUR at 656-2375.

NEW COMMITTEES TO PROMOTE WELLNESS, REVIEW PRESIDENT'S COUNCIL STRUCTURE

The President's Council July 29 voted for setting up a University committee "to initiate the planning and development of a 'Health Wellness' program for all employees."

President Bill Atchley indicated his support for the idea by saying he especially likes the "positive approach" to good health that wellness programs emphasize.

The Council adopted a proposal submitted by the Commission on Faculty Affairs calling for the new committee to be chaired by a staff member from the Payroll/Insurance Office and to include "a representative of each college or administrative unit having an interest in the health and wellness areas and any other person the committee shall deem appropriate."

(The wellness concept focuses on preventing disease and promoting good health rather than on curing illnesses after they happen.)

In other business related to the Commission on Faculty Affairs, the Council agreed that the chairman of the Faculty Development Committee should be a member of that commission and that the University Registrar should be a member of the Marshal's Committee.

The justification for each recommendation is that the move would improve communications between people or groups with common areas of interest or responsibility. For example, the Registrar and the Marshal's Committee are both involved in preparing for each commencement ceremony.

Turning to the Alcohol and Drug Abuse Committee, the Council accepted a Commission on Student Affairs suggestion that all appointments to that committee be for one-year terms.

The Faculty Senate concurred with the commission's recommendation.

President Atchley named the chairmen of the six commissions that report to the Council to a special committee to review the Council's structure and operation and to recommend improvements.

Vice Provost Jerry Reel, chairman of the Commission on Undergraduate Studies, will chair the special committee, which is to have its report ready by January.

The Council has been in place since January 1981.

The president also noted that he has appointed another committee to study the possibility of establishing a Council commission on staff affairs.

"The classified employees here are so important in the education of our young people," he said, emphasizing his interest in developing a way for classi-

fied employees to express their ideas, opinions and suggestions about University matters that affect staff members.

In general remarks to the Council, the president said he does not anticipate a state budget cut during 83-84. "We may be a little better off this year [than last year]," he said.

He said he is looking forward to working closely with the new chairman of the Board of Trustees, state Sen. James Waddell of Beaufort.

Atchley said Waddell would like to hold "get-acquainted" meetings with various campus groups in the coming months.

PRESIDENT ATCHLEY NAMES
NEW EXECUTIVE ASSISTANT

Ross Cornwell, who's been director of the University's department of information and public services since 1980, has been named executive assistant to the president.

The reassignment means Cornwell will now provide communications counsel, do research and analysis, and handle special projects for the president. The move to the president's staff from the public information department does not involve creation of a new position.

President Bill Atchley said the appointment is "a move to strengthen the communications function of the President's Office. Ross has done an excellent job directing the news, publications, and other programs of our public information department. He has experience as an administrator and expertise in communications that will be valuable to the work of this office."

Cornwell, 37, has been here since 1970. Educated at Davidson College and Stanford University, he was a journalist

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The Clemson University Newsletter is published for Deborah Davis, clinical lab technician at Redfern Health Center, and for all the members of the University faculty and staff by the department of information and public services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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before joining the Clemson staff. He has served as associate editor of the news bureau and as assistant director for University information. He became director of information and public services three years ago in what used to be the department of public relations.

His staffs have won five top national awards, including the Newsweek Grand Award for Excellence in News Writing in 1979. That award is the No. 1 ranking in the nation for college news bureaus in an annual competition sponsored by Newsweek Magazine and the Council for Advancement and Support of Education.

Cornwell also headed the University group that developed the "Bill Atchley Wants to Meet You" program of statewide visits in 1979-80, which was selected the top public relations project in higher education in the nation for 1980 by the Ford Motor Company Fund and the CASE organization. The program was a joint project of University Relations, the Alumni Association, IPTAY, faculty representatives, and 13 local committees throughout South Carolina.

UNIVERSITY EMPLOYEES ASKED TO JOIN HARTWELL LAKE CLEANUP CAMPAIGN

Weekend snoozers, awake and get set to walk the line Saturday, Aug. 27 -- the Hartwell Lake shoreline, that is -- in the Clean Hartwell Lake Campaign sponsored by the Savannah District Army Corps of Engineers and the Clean Hartwell Lake Committee.

The Corps is asking University

employees to join the citizens of Clemson to clean up the 89 miles of Hartwell Lake shoreline within the Clemson community. The Clemson area cleanup is part of a broader Corps effort to clean the entire 960 miles of the lake's shoreline during 1983.

Ron Ruffennach, assistant public affairs information officer for the Corps, says the purpose of the cleanup is "to make Hartwell Lake clean and safe for the many visitors who take advantage of its superb recreational opportunities. And, since Clemson University is a part of the Hartwell Lake community, we would appreciate your support of the cleanup effort."

Members of the faculty and staff can help, says Ruffennach, by organizing as large a group as possible to walk the shoreline to pick up litter. Also, he says, people with access to boats can help by picking up litter in remote areas of the lake.

Faculty and staff members interested in joining the cleanup crew should call cleanup day chairman Tom O'Connor (collect) at 803/225-7071 for assignment to a cleanup area. O'Connor urges volunteers to call ahead, but he says latecomers are welcome and should report to the Twelve Mile boat ramp on the morning of the cleanup.

"We need adults to supervise access areas and to check people in and out, just to make sure that everybody who goes out on the lake gets back," says O'Connor, "and Clemson faculty and staff would be good for this."

Cleanup hours run from 8 a.m. to 1:30 p.m., with a picnic following the cleanup at Hartwell Dam.

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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Aug. 20-31

WORKSHOPS

- 23-24 "Warp Knitting." Sponsored by Professional Development. Call 656-2200 for more information.
- 27 "Student Government Judiciary Workshop." Sponsored by student government, Senate Chambers, 9 a.m.-5 p.m. Call 656-2195 for more information.
- 31 "In Search of Excellence." Sponsored by Professional Development. Call 656-2200 for more information.

OPENLINE

- 22 Judith Haislett, director of the Counseling and Career Planning Center, talks on rape crisis counseling. Coordinated by University Relations, S.C. Educational TV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 29 A professor from the parks, recreation and tourism management department talks on backpacking. Coordinated by University Relations, S.C. Educational TV, Channel 29, 7:30 p.m. Call 656-2061 for more information.

FILMS

- 21 "Capricorn One." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 25-27 "An Officer and a Gentleman." Sponsored by University Union, Y-Theater, 7 and 9:30 p.m. \$1.50 with University I.D. Call 656-2461 for more information.
- 28 "Pink Panther Strikes Again." Sponsored by University Union,

AUG 23 1983

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Aug. 27-Sept. 9

WORKSHOPS, CONFERENCES AND SEMINARS

- 27 Student Government Judiciary Workshop. Sponsored by Student Government, Senate Chambers, 9 a.m.-5 p.m. Call 656-2195 for more information.
- 31 Workshop: "In Search of Excellence." Sponsored by Professional Development. Call 656-2200 for more information.
- 6 Seminar: "Determination and Sources of Capital." Sponsored by Small Business Development Center, Sirrine Hall Auditorium, \$15. Call 656-3227 for more information.
- 6-7 Conference: Second Annual Southeastern Trade Conference -- "Focus on International Economic Interdependence." Sponsored by College of Agricultural Sciences, College of Liberal Arts, Strom Thurmond Institute of Government and Public Affairs and the U.S. Department of Commerce, Ramada Inn. Free to faculty and staff, \$45 registration fee for others. Call 656-3460 or 656-2396 for more information.
- 7 Short course: "Fall Fashions." Sponsored by University Union. Free. Sign up at Union Information Desk or call 656-2461 for more information.
- 8-9 Workshop: "Health Promotion and the Occupational Health Nurse." Sponsored by Nursing Continuing Education and the S.C. Occupational Health Nurse Association, Ramada Inn. Preregistration required. Call 656-3078 for more information.
- 9-13 Workshop: "Smoky Mountain Recreation Consortium," an interactive commercial recreation and tourism learning experience in a non-traditional setting. Sponsored by parks, recreation and tourism management and open to PRTM juniors and above. Academic credit available. Camp Wesley Woods, Tenn. Approximate cost, \$110. Call 656-3400 for more information.

CU EVENTS (Cont.)

OPENLINE

(Openline is South Carolina Educational Television's public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Openline airs on Channel 29 at 7:30 p.m. Call 656-2061 for more information.)

- 29 Gordon Howard, professor of parks, recreation and tourism management talks on backpacking.
- 2 Carolina and Clemson Football Special.
- 6 Export Conference participants -- Benoit Liger, deputy director of European Economic Communities Delegation to the U.S.; Melvin Sims, general sales manager Commodity Credit Corporation; and Ray Shockley, executive vice president American Textile Manufacturers Institute.

CONCERTS

- 27 Bluegrass Festival -- The Wooden Nickel Band, Cousins General Store Bluegrass Band, Fifth String Band, Bonnie Stillwell Cloggers, arts, crafts and food. Sponsored by University Union, East Bank, 10 a.m.-5 p.m. \$1 with University I.D., \$2 for public, children under 12 free. Call 656-2461 for more information.
- 29 Tickets go on sale at the Union Box Office for the Hank Williams Jr. Concert Sept. 23. Sponsored by University Union. Call 656-2461 for more information.
- 5 Clemson University Concert Series: Festival Arts Trio. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students free with activity card, others present season tickets (\$20 adults, \$10 students) or tickets may be bought at the door (\$6 adults, \$2 students.) Call 656-3043 for more information.

FILMS

- 28 "Pink Panther Strikes Again." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 1-3 "The Verdict." Sponsored by University Union, Y-Theater, 7 and 9 p.m., \$1 with University I.D. Call 656-2461 for more information.
- 4 "Brian's Song." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.

CU EVENTS (Cont.)

- 5 "My Fair Lady." Sponsored by University Union, Y-Theater, 8 p.m. \$1 with University I.D. Call 656-2461 for more information.
- 6-8 Comedy Film Festival -- The Three Stooges, W. C. Fields and Abbot and Costello. Sponsored by University Union, the Gutter, 8-11 p.m., 50 cents. Call 656-2461 for more information.
- 8-10 "M*A*S*H." Sponsored by University Union, Y-Theater, 7 p.m. and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 1 Soccer: Pfieffer, here, 8 p.m.
- 3 Football: Western Carolina, here, 1 p.m.
- 4 Soccer: Winthrop, here, 2 p.m.

OTHER EVENTS

- 28 Carowinds trip. Sponsored by University Union, 9 a.m.-9 p.m. \$19 includes transportation and admission. Sign-up and more details at Union Information Desk. Call 656-2461 for more information.
- 29-9 Room change. Submit application to the central Housing Office, 200 Mell Hall.
- 30 "Suburbs." Sponsored by University Union, Edgar's, 8 p.m., \$3 per single, \$4 for a couple. Call 656-2461 for more information.
- 31 Campus Skate. Sponsored by University Union, Union Plaza, 4-9 p.m., \$1. Call 656-2461 for more information.
- 1 Cocktail party honoring Distinguished Alumni Professors. Sponsored by University Club, Alumni Center, 4:30 p.m., \$4 for members, \$5 for others. Call 656-2345 by Aug. 27 to make reservations and for more information.
- 1-2 "Heartfixers." Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information.
- 2 First Friday Parade and Pep Rally. Sponsored by Pi Kappa Alpha Fraternity and Central Spirit, Highway 93. Call 656-2153 for more information.
- 2 Columbia Riverbank Zoo trip. Sponsored by University Union, 9 a.m.-5 p.m. \$6.50 includes transportation and admission. Call 656-2461 for more information.

CU EVENTS (Cont.)

- 5-26 Exhibit: Paintings by Walter Stevens, Knoxville, Tenn., abstract landscapes in acrylic and watercolor. Coordinated by University of Tennessee and sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 6 College Bowl orientation. Sponsored by University Union, Edgar's, 7-9 p.m. Call 656-2461 for more information.
- 6 Student Organizations Day. Sponsored by Student Government, Bowman Field, 3-6 p.m. Open to all students, faculty and staff. Call 656-2195 for more information.
- 7 English Hour lecture: Frank L. Day, associate professor of English. Sponsored by English department, 108 Strode Tower, 8 p.m. Open to public. Free. Call 656-3151 for more information.
- 7 Pool tournament. Sponsored by University Union, Union Gameroom, 7:30-10 p.m. Call 656-2461 for more information.
- 8 Pep rally for Boston College game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.
- 8-9 "The Blanks." Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information.

SEP 2 1983

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



PRESIDENT OPTIMISTIC ABOUT NEW SCHOOL YEAR

Though he believes "the golden age of higher education is over as far as public funding is concerned," President Bill Atchley is optimistic about the University's future and wants the faculty and staff to join him in being "bold, daring and different" in meeting the challenges that lie ahead.

That was his message to the Aug. 17 general faculty and staff meeting in Tillman Hall Auditorium.

Atchley updated the audience on events of the summer and spoke briefly on plans for the new year.

He noted that the summer brought to a close the first phase of the administrative internship program designed to attract young black professionals to positions here.

The program, administered by the Provost's Office and the Office of Human Resources, has become a model for other state agencies, Atchley said.

All six interns who participated in the initial year of the program successfully completed their internships and are now permanent, full-time employees.

Atchley also said that Clemson and Winthrop are the only two schools to meet their goals thus far in the state's five-year desegregation plan.

(As an example of Clemson's success in minority student recruitment, total black undergraduate enrollment increased from 2.5 percent of the student body in

the fall of 1981 to 3.4 percent in the fall of 1982. The University's projected black enrollment for fall '82 was 3.3 percent.)

Jumping downstate for his next topic, the president noted the May 23 groundbreaking near Florence for the new \$3.7 million Pee Dee Research and Education Center for Agriculture, which he said will be "a great benefit to South Carolina's agricultural future."

As evidence of progress by the Thurmond Institute, Atchley cited the Institute's first Thurmond Seminars in Government and Politics, which brought 30 high school social science teachers to campus June 13-24 to hear directly from state and national political and governmental leaders.

Atchley said the summer was full of events that reflect Clemson's position as "the center for science and technology education in South Carolina."

He cited as an example Texas Instrument's gift of \$60,000 worth of microcomputers and software to be used by the College of Education to increase the computer literacy of the state's high school teachers.

The equipment has been installed in a van, given by the Alumni Association, that will travel the state as part of the college's ComputerVantage program.

Clemson's "mission and tradition as the high-technology, science-oriented educational center" of South Carolina was also "underscored," Atchley said, by the recent transfer of the Governor's

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Office of Energy Resources to the S.C. Energy Research Center located here.

President will keep an eye
on the new traffic lights

Atchley said the new pedestrian stop-lights on Highway 93 at Sikes Hall were installed after several studies of the safety problems associated with the two crosswalks in that area.

He called the cost of alternatives, such as building a pedestrian overpass, "outrageous" and said that, based on the low number of accidents in the area over the past several years, no action was absolutely necessary.

"But it's hard for me to see students as statistics in this case," he said, adding that he feels pedestrians who need to cross Highway 93 "should have the opportunity to cross safely."

He said he will continue "to monitor this situation" to determine the effectiveness of the lights.

Moving to the budget, Atchley said "things are looking up."

"We didn't get everything we really needed this year," he said, "but at least I think the hemorrhaging has stopped."

He said Clemson will again request full-formula funding for 1984-85, will work for better salaries for classified employees, and will seek permission to award salary increases based on "productivity" rather than across-the-board.

Stressing again his commitment to "good communication between the students, the faculty, the administration and the staff," Atchley said he is joined in that commitment by the Board of Trustees.

"Sen. Jim Waddell, who was elected

chairman of the Board July 22, has indicated clearly his commitment to good communications and a good working relationship with the administration," Atchley said.

"The Trustees plan to stay in better touch with the campus through their existing committee structure, he said, adding that they "have made it clear" they do not intend to get involved in day-to-day operation of the University.

"We're going to need [the Trustee's] involvement in some very crucial things for Clemson's future," Atchley said. "Their advice and guidance will be very important," he said, in matters such as fund-raising, for example.

Through the Office of University Research, Atchley said, the University airplane is now making regularly scheduled flights, once each month, to Washington, D.C., for faculty members with or seeking research grants. (Contact OUR for more information and see story in the Aug. 17 University Newsletter.)

'We're Proud to Say' coming soon
to a location near you

October and November will be showcasing months for Clemson, according to the president. On nine consecutive Tuesday nights, the University will present, in key locations across South Carolina, "a roadshow to showcase Clemson and what we have to offer this state."

The show, billed "We're Proud to Say," is being coordinated by the Alumni Office and will include students, faculty, staff and administrators from all areas of the University.

Atchley said he has appointed two committees to consider changes to the President's Council, his broadly based advisory body through which most University groups report.

One committee is looking at the over all Council structure, in place now for

two years, to determine its effectiveness and to suggest improvements.

The second committee is studying the possibility of adding a commission on staff affairs to the Council.

Atchley also spoke on recent changes to the Athletic Council. (The changes are explained in detail in the Aug. 24 University Newsletter. Basically they are an increase in the number of faculty members on the council, provision for faculty nomination of those faculty members, and a clearer charge to the council.)

On the matter of fund-raising, the president said Clemson has entered "the big leagues now" with the Challenge to Greatness campaign and its first phase, the Thurmond Center project.

"Don't get discouraged," he advised. "It takes time to develop a substantial base of support among business and industry, the foundations, and the big donors on a national scale."

He said the search for a vice president to coordinate academic fund-raising is making progress and that ads announ-

cing the position will be placed soon in The Chronicle of Higher Education and The Wall Street Journal.

"This person will have a great opportunity to coordinate our fund-raising programs, put the finishing touches on some of these projects, and start some new ones," Atchley said.

"But there are no quick fixes and no overnight successes," he said. "We're in the big leagues now. You must be optimistic."

TRADE CONFERENCE TO FOCUS ON INTERNATIONAL INTERDEPENDENCE

With more than 25 percent of all U.S. agricultural products and almost 10 percent of all textile and apparel products sold abroad each year, international economic interdependence is becoming increasingly important, says Extension economist Parr Rosson.

Thus "International Economic Interdependence" is a particularly appropriate theme, he says, for the Second Annual Southeastern Trade Conference to be held Sept. 6-7 at the Clemson Ramada Inn.

Industry, government and academic experts will converge to discuss the problems affecting international trade in textiles and agriculture.

"We hope the conference will create an awareness of the importance of international trade," says Rosson, "so people can understand interdependence among countries and industries and how they are affected by it."

"If developing countries can't purchase goods from this country, for example, what does this mean for producers and consumers? These are the kinds of issues we'll be talking about."

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The Clemson University Newsletter is published for Teresa Williams, clerk steno in seed certification, and for all the members of the University faculty and staff by the department of information and public services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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In addition to discussing the problems of international trade, participants will try to develop a foundation for solutions that may help guide future trade policy decisions.

Participants in the conference will include Dewain Rahe, director of USDA's Trade and Economic Information Division; Benoit Liger, deputy director of the European Economic Community Delegation; Ray Shockley, executive vice president of the American Textile Manufacturers Institute; Les Tindal, S.C. Commissioner of Agriculture; Alfred Kingon, the U.S. Commerce Department's assistant secretary for international economic policy; Charles Dallara, the U.S. Treasury Department's deputy assistant secretary for international monetary affairs; and Melvin Sims, USDA's general sales manager for the Commodity Credit Corp.

The two-day conference is free to faculty and staff members, except for the banquet and reception on Sept. 6 at 7:30 p.m., which is \$15. But, Rosson says, the \$15 may be reimbursed at the discretion of your department or college.

To register or for more information, call Rosson at 656-3460.

INSURANCE PROGRAM SHIFTS EMPHASIS TO OUT-PATIENT HEALTH CARE

New and increased insurance benefits for state employees this year are evidence of a shift in emphasis in hospital care from in-patient to out-patient treatment, says Ron Herrin, director of payrolls and employee benefits.

Among the gains are coverage for second opinions for elective surgery and increased coverage for out-patient services.

Herrin says a second opinion on elective, non-emergency surgery is now paid

for under the state insurance plan, and even a third opinion may be paid for in certain cases. "The third opinion is to alleviate the quandry the individual would be in should the first two opinions be different," he says. "If the first two opinions are the same, most likely a third wouldn't be covered."

New out-patient benefits include a "pre-admission testing" option designed to encourage you to have diagnostic tests that your doctor orders performed on an out-patient basis.

This has three advantages for you:

-- If the test results indicate you need hospitalization, you'll probably get a break on the state insurance "deductible" charge because you had the tests performed before you were admitted.

-- In some cases, says Herrin, "pre-admission testing" may help you avoid hospitalization altogether, since the tests results may show you don't need a hospital stay.

-- Out-patient testing can be done quicker than in-patient testing; therefore, you'll save about two days of in-hospital time and costs, says Herrin.

The result of "pre-admission testing," he says, is savings both to the patient and to other policyholders. That's because eliminating unnecessary hospitalization reduces claims, and, under a self-insured program such as the state has, insurance premiums are a direct result of the number of claims paid.

Required for the first time this year is pre-certification or pre-approval from the insurance company for you to be hospitalized for surgery that is considered safe to be performed on an out-patient basis -- having a cyst removed, for example.

"If you are to have one of these operations, and your doctor says your condition is too risky for the operation

to be done on an out-patient basis," says Herrin, "then the doctor must send the insurance company a form substantiating your physical condition."

The insurance company will then approve or disapprove hospitalization for the surgery.

Other changes in the basic state insurance policy include increased benefits in out-patient diagnostic coverage -- from \$300 to \$400 maximum per person per contract year -- and in the coverage for mental and nervous conditions -- from \$3,500 to \$3,700 per person for in-patient care and from \$800 to \$1,200 for out-patient care.

"All of this [second opinion surgery, pre-admission testing, pre-certification, and increased out-patient coverage] is an effort to redirect how benefits are used," says Herrin. "There is a misconception that our insurance will pay more in the hospital than out of the hospital. But the payment is the same whether services are performed on an in-patient or out-patient basis."

Another common misconception, he says, is that the standard state insurance plans, Plan A and Plan B, cover everything. They don't.

"If we had insurance that covered everything, probably none of us could afford it," he says.

Herrin says any employee who wants more details on the state's basic coverage and benefits or on the numerous optional programs and benefits available through the University should contact the Payroll/Insurance Office (G-13 Sikes Hall, 656-2000).

You should also keep in mind that November is "Open Enrollment Month" -- the month set aside for employees to make major changes in their insurance coverage.

Decreasing hospitalization and other cost-containment measures taken in the

past year have helped to hold down the number of claims and to prevent an increase this year in premiums paid by employees. However, says Herrin, the state has picked up a \$5-per-month increase for each employee.

Herrin says the Health Wellness Committee recommended by the President's Council in July is another positive step in preventing an increase in insurance premiums.

"The idea of wellness is to prevent expensive medical problems and hospitalization from occurring in the first place," he says, "although people who really need to be in the hospital will go there."

While some people may see hospitalization as a convenient way to have testing performed, it is, says Herrin, an expensive convenience.

"With medical costs what they are today, I'm not sure we can afford that luxury when out-patient testing is just as effective and much less expensive."

LYONS TEACHER AWARD TO HONOR OUTSTANDING TEXTILES PROFESSOR

Provost David Maxwell has announced establishment of the J. Joseph Lyons Distinguished Teacher Award, which will honor an outstanding professor in textiles or a textile-related field.

The M. Lowenstein Corp. and the Leon Lowenstein Foundation has given the University \$25,000 in memory of the late Joseph Lyons of Anderson, a 1925 textile engineering graduate of Clemson who served on Lowenstein's board of directors from 1949 until his death in March.

According to Vice Provost Arnold Schwartz, "funds will be placed in the University Foundation for the first

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award to be made in the fall semester of 1984, and the criteria for selecting the professors to receive the award are still being worked out."

Schwartz says a professor will be chosen annually to receive a cash award of \$1,000 and additional funds for research or study.

Lyons joined the New York-based Lowenstein Corp. in 1946, when it acquired Orr Mills in Anderson. He retired in 1970 as executive vice president in charge of the company's greige goods plant in Anderson, a position that earned him the title "dean of the greige goods industry."

Lowenstein renamed one of its Anderson mills after Lyons in 1978. He was the second of four generations of Lyons to work for Lowenstein.

NEW DIRECTOR APPOINTED FOR SMALL BUSINESS CENTER

Commerce and Industry Dean Ryan Amacher has announced a new director for the Small Business Development Center. Pat Cunningham, former staff development and training coordinator with SBDC, began the job Aug. 1. He will oversee the center's consultation services and workshops and seminars program.

Cunningham, who received his bachelor's degree in business administration from Winthrop College, joined SBDC while working on his master's degree in the Clemson-Furman MBA program. In 1981 he became director of the SBDC satellite office in Spartanburg.

SBDC was established in 1978, says Cunningham, when Clemson joined the University of South Carolina, S. C. State College and Winthrop College to develop a statewide network of centers to help small businesses avoid failures.



Cunningham

The Clemson center, with its Spartanburg satellite office, serves 12 Upstate counties. Cunningham says a goal of the center is to establish an additional satellite office in Greenwood County.

Cunningham succeeds Charles Paterno, who left June 1 to accept a position with Sonoco Products Co. in Hartsville.



Watkins

HOUSING OFFICE NAMES NEW ASSISTANT DIRECTOR

In a recent reorganization of the Housing Office, Matt Watkins was promoted to assistant director, succeeding Verna Howell, who is now associate director.

Watkins joined Housing in 1981 as area coordinator of East Campus housing. He earned both his bachelor's in administrative management and his master's in education here.

With a graduate study emphasis in personnel services, Watkins is, says director of housing Almeda Boettner, "an asset to the entire housing operation."

Robin Wicker succeeds Watkins as area coordinator for East Campus housing.

CUSTODIAL SERVICES NAMES
NEW SUPERINTENDENT

Ed Singleton felt a little twinge of sadness on leaving his job in June as supervisor of recreation at the University Union because, as he says, "I liked being around the students so much."

But, as the new superintendent of custodial services in the housing department, he's finding he still plays a role in student life, for now he's responsible for trying to keep on-campus students happy and comfortable in their home away from home.

"When the students first came back," he said, "for the first few weeks it was just about round-the-clock work seven days a week. They'd want a mirror moved or a mattress changed, something like that. We've been changing mattresses all this week."

As custodial services superintendent, Singleton oversees five supervisors and 65 staff members who provide maintenance and house care for all dorms on East and West Campus and for Village Green, Thornhill Village and Calhoun Courts.

"I think it will be a challenge," says Singleton. "I love people, and I like working with the people here."

Singleton, who's been with the University since 1975, received his bachelor's degree in science from Allen University in Columbia and a bowling technician's degree from AMF Technical School in Mansfield, Ohio.



Singleton

He succeeds Floyd Gantt, who retired in June.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff appear in the last Newsletter of each month.

Accountancy

A. S. Boyett (Assoc Prof), L. E. Bryan (Asst Prof) and G. T. Friedlob (Assoc Prof) presented a two-day seminar on governmental accounting, sponsored by the South Carolina Association of Certified Public Accountants, in Columbia May 24-25.

Profs. Bryan and Friedlob testified before the Securities and Exchange Commission Forum on Business in Boston, Mass., July 13 and presented testimony, "Financial Management and Capital Formation in Small Business," to the Commission's 1983 Small Business Forum.

Prof. Friedlob published two papers: "What are the Effects of Differing Restrictions on Closely-Held Stocks" in The Journal of Taxation (April 1983) and "How Economic Statisticians View Accounting Profits" in Journal of Accounting, Auditing and Finance (Winter 1983).

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Agricultural Engineering

The following have received funding for research:

-- J. M. Bunn (Prof), \$7,000 from the S.C. Soybean Board for "Soybean Viability in Storage."

-- M. J. Delwiche (Asst Prof), \$3,750 from the S.C. Peach Council and Promotion Board and \$500 from the Georgia Council for support of peach quality research.

-- J. R. Lambert (Prof), \$4,100 from the USDA-Coastal Plains Soil and Water Laboratory for continued work on "Irrigation Scheduling."

-- J. T. Ligon (Prof) and T. V. Wilson (Prof), \$28,500 from USDA-Special Grants for "Factors Contributing to and Control of Peach Tree Short Life in South Carolina."

The following papers were presented at the American Society of Agricultural Engineers' (ASAE) meeting in Bozeman, Mont., June 27-29:

-- "Irrigation of Swine Lagoon Effluent onto Pine and Hardwood Forests" by R. O. Hegg (Prof), D. L. Handlin (Assoc Prof, An Sci) and A. T. Shearin (Instr, For).

-- "Development of a Green Onion Harvester" by C. E. Hood (Prof), R. E. Williamson (Prof), A. Margolin (Vstg Instr), E. L. Loomis (Asst Prof, Hort) and E. T. Sims Jr. (Prof, Hort).

-- "The 40,000 Dollar Scholarship Mystery" by F. J. Wolak (Asst Prof) and R. A. Spray (Prof).

-- "Extension Audience -- Microcomputer Dynamics" by Profs. Wolak and Spray.

-- "4-H Electric Congress -- Stimulant for Project Enrollment" by Prof.

Spray, E. J. Tyson (Duke Power), J. E. Brown (SC Elec & Gas Co) and L. M. Williamson (Carolina Power & Light Co.)

-- "Influence of In-Row Subsoiling on Soil Water Management" by F. Armstrong (Res Asst) and V. L. Quisenberry (Assoc Prof, Agro).

-- "Minimum Ground-Color for Harvesting and Packing Fresh Peaches" by M. J. Delwiche (Asst Prof) and R. A. Baumgardner (Prof, Hort).

-- "Evaluation of a Hybrid Solar Brooding House" by W. H. Allen (Assoc Prof) and B. L. Hughes (Prof, Poul Sci).

-- "Gasifier Temperature Control to Prevent Slag Formation" by F. A. Payne (Asst Prof).

Also at that meeting, Prof. Payne presided at a session, "Biomass Harvest, Processing and Thermochemical Conversion for Energy," and Prof. Wolak presided at a session, "Managing Farm Machines More Efficiently." Prof. Spray received a blue ribbon for his Extension publication, "Grain Aeration after Drying," and C. V. Privette (Assoc Prof) received a blue ribbon for his publication, "Selecting a Pumping Plant for Most Efficient Use."

E. J. Middlebrooks (Newman Prof) conducted a symposium on low-cost wastewater treatment systems, co-sponsored by EPA and Clemson, here, April 19-21.

Agricultural Experiment Station

A. W. Johnson (Prof, Pee Dee Stat) received a \$29,500 grant from the R. J. Reynolds Co. to conduct research on tobacco plant pests.

Biological Sciences

B. D. Grove (Grad Stu) and J. P.

Wourms (Prof) presented "Absorption des molecules traceuses par embryons chez le poisson vivipare, Heterandria formosa" at the 1983 annual meeting of the Canadian Society of Zoologists in Ottawa, Ontario, May 14-18.

R. L. Hays (Prof) has received three appointments:

-- a three-year term on the Editorial Review Board of the Journal of College Science Teaching;

-- a two-year term on the standing college committee of the National Science Teachers Association;

-- a three-year term on the S.C. Heart Association Research Allocations Committee.

Prof. Hays published a Study Guide to accompany Guttman and Hopkins' Understanding Biology by Harcourt, Brace, Jovanovich Co.

D. G. Heckel (Asst Prof) received grants from the Highlands Biological Station and the Savannah River Ecology Laboratory for summer support of his research on "The Life History of the Eastern Vermilion-Spotted Newt."

The following papers were presented at the Southeastern Society of Parasitologists in Lafayette, La., April 14:

-- "Transfer of Leucocytozoan smithi Gametocytes from Infected to Uninfected Turkey Hosts" by G. P. Noblet (Asst Prof).

-- "Isolation of Thermotolerant Acanthamoeba from South Carolina Piedmont Lakes" by Prof. Noblet and D. E. Kyle (Grad Stu).

M. G. Tannenbaum (Grad Stu) and E. B. Pivorun (Assoc Prof) presented a paper, "Sertonerigic and Dopaminergic Modulation of Daily Torpor in Peromyscus maniculatus" at the 63rd annual meeting of the American Society of Mammalogists in Gainesville, Fla., June 19-23.

Chemistry

R. A. Abramovitch (Prof) presented invited lectures on "Molecular Rearrangements in Heteroaromatic N -Oxides" at the universities of Florence and Padova and at the Council for National Research in Bologna, Italy, June 13-15. He attended the 29th Congress of International Union of Pure and Applied Chemistry in Cologne, Germany, June 5-10.

Prof. Abramovitch also served on the examining committee at the oral examination for the Docteur Ingenieur degree of J. L. Boucher of the Faculty of Sciences at the University of Aix Marseille III.

Civil Engineering

H. W. Busching (Prof) and J. L. Burati (Asst Prof) have received \$176,000 from the S.C. Department of Highways and Public Transportation to conduct a two-year research project on "An Investigation of Stripping in Asphalt Concrete in South Carolina."

Elementary and Secondary Education

R. E. Jenkins (Assoc Prof) and M. C. Woodson (Assoc Prof) have had a study, "Reduction in Force: Policy and Procedure in South Carolina School Districts," accepted for publication in Resources in Education (RIE) by Eric Clearinghouse.

E. J. Kozma (Prof & Hd) was an invited participant in a national conference sponsored by the Association of Colleges and Schools of Education in State Universities and Land-Grant Colleges and the National Parent Teachers Association at the University of Virginia in Charlottesville, July 17-20.

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W. W. Pennscott (Prof) presented a paper, "A Systems Approach to Consultation," and chaired a panel, "Consultation: Perspectives to Enhance Practice," at the National Elementary-Middle School Guidance Conference in Columbia, June 22-26.

English

J. L. Idol (Prof) concluded a workshop for Greenville County schoolteachers on advanced placement courses in history and on using American novels as supplementary materials in history classes on June 22.

C. H. Sawyer (Prof) published "If I Could Walk That Way, I Wouldn't Need the Talcum Powder: Word Play Humor in M*A*S*H" in the Journal of Popular Film and Television, 11 (Spring 1983).

Environmental Systems Engineering

T. J. Overcamp (Assoc Prof) and S. R. Bowen (Former Grad Asst) published "Effect of Throat Length and Diffuser Angle on Pressure Loss Across a Venturi Scrubber" in the Journal of the Air Pollution Control Association, 33, No. 6 (June 1983) 600-604.

Housing



Ivira Newsome of Pendleton was chosen Custodian of the Month for June. He has been with the department since 1981.

Management

W. H. Hendrix (Assoc Prof) and C. W. McNichols (Prof) have had a paper, "Organizational Effectiveness as a Function of Managerial Style, Situational Environment and Effectiveness Criterion," accepted for publication in the Journal of Experimental Education.

Prof. Hendrix has had a paper, "Development of a Contingency Model Organizational Assessment Survey for Management Consultants," accepted for publication in the Journal of Experimental Education.

M. J. Stahl (Prof & Hd) and T. W. Zimmerer (Prof) have had an article, "Modeling Strategic Acquisition Policies: A Simulation of Executives Acquisition Decisions," accepted for publication in the Academy of Management Journal.

Prof. Stahl has had an article, "Achievement, Power and Managerial Motivation: Selecting Managerial Talent with the Job Choice Exercise," accepted for publication in Personnel Psychology (Winter 1983).

Marketing

L. H. Stone (Prof) presented "Marketing Strategy and Planning" to the annual meeting of the National Broiler Council at the Great Smokies Hilton in Asheville, N.C., July 21.

Mathematical Sciences

P. M. Dearing (Assoc Prof), J. D. Fulton (Prof & Hd), R. E. Jamison (Assoc Prof), J. P. Jarvis (Assoc Prof), Renu Laskar (Prof) and R. D. Ringeisen (Assoc Prof & Assoc Hd) attended the Society for Industrial and Applied Mathematics'

Second Conference on the Applications of Discrete Mathematics at the Massachusetts Institute of Technology in June.

At that conference Prof. Jarvis presented a paper, "Complexity of the Group Knapsack Problem," and Prof. Laskar presented a talk, "A Linear Algorithm for a Minimum Total Dominating Set of a Tree." J. S. Pfaff (Grad Stu), S. M. Hedetniemi and S. T. Hedetniemi (Comp Sci) assisted Prof. Laskar in preparing the presentations.

Mechanical Engineering

E. H. Law (Prof) organized and co-chaired a session, "Dynamics and Control of Ground Vehicles," at the 1983 American Control Conference in San Francisco, Calif., June 22-24.

Physics and Astronomy

The following invited papers were presented at the Fifteenth IUPAP International Conference on Thermodynamics and Statistical Mechanics at the University of Edinburgh in July:

-- "Intrinsically Nonlinear, Persistent Interactions in Quantum Theory" by P. B. Burt (Prof & Hd).

-- "Computer Simulations of a Disordered System: Mechanical Properties of a Nonwoven Fabric" by H. W. Graben (Prof), written with W. E. Gettys (Prof) and C. F. Elliott Jr. (Former Grad Stu).

Prof. Burt presented an invited paper, "Persistent Interactions in Quantum Field Theory," at the European Physical Society International Conference on High Energy Physics, July 20-23, and he visited the University of Kent Canterbury for research purposes July 18-19.

J. R. Ray (Prof) and L. L. Smalley

(Univ of Ala) received Honorable Mention from the Gravity Research Foundation for their essay, "Spinning Matter in General Relativity," in April.

Prof. Ray was a faculty research participant this summer at Argonne National Laboratory near Chicago, Ill., where he researched computer simulations of solids with A. Rahman (Sr Resch Sci).

R. C. Turner (Assoc Prof) received a \$37,092 one-year research grant from Fiber Industries Inc. in Charlotte, N.C., to study with R. H. Barker (Prof, Tex) the thermo-oxidative stability of polyester.

Plant Pathology and Physiology

J. M. McLeod (Grad Res Asst), W. Witcher (Prof), W. M. Epps (Hd Emer), and M. L. Robbins (Prof, Hort) published "Resistance of Okra Plant Introductions to Root Knot Nematode and Fusarium Wilt" in HortScience, (April 1983).

Poultry Science

D. V. Maurice (Assoc Prof) has received a \$21,500 grant from the Southeastern Poultry and Egg Association (SPEA) of Decatur, Ga., for a two-year study of "Structure and Chemical Determinants of Egg Shell Strength." The SPEA supports education and research in the southeastern poultry industry.

Psychology

The following papers were presented at the 50th anniversary biennial meeting of the Society for Research in Child Development in Detroit, Mich., in April:

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-- "Loneliness at Adolescence: Correlates, Attributions and Coping" by D. D. Moore (Asst Prof) and N. R. Schultz Jr. (Assoc Prof).

-- "Parent-adolescent Separation: Abandonment and Indicators of Leaving Home" by Prof. Moore and D. Hotch (Dir of Ed Dev, Rush Presby, Chicago, Ill.)

-- "Children's Detection and Resolution of Text Incongruence: A Study of Comprehension Monitoring Skills" by K. M. Zabrocky (Vstg Asst Prof) with H. H. Ratner (Wayne State Univ).

Prof. Moore and Dir. Hotch published "The Importance of Different Home-leaving Strategies to Late Adolescents" in Adolescence, Vol. 18, No. 70 (Summer 1983) 413-416.

Profs. Moore and Schultz published "Loneliness at Adolescence: Correlates, Attributions and Coping" in Journal of Youth and Adolescence 12 (1983) 95-100.

Prof. Zabrocky presented "Comprehending Anaphors: Effects of Text Coherence on Search Processes" (with S. D. Nolan and M. K. Tanenhaus, Wayne State Univ) at the 55th annual meeting of the Midwestern Psychological Association in Chicago, Ill., May 5-7.

Prof. Zabrocky and R. Dolinsky (Univ of Toledo) published "Learning Virtually Meaningless Metaphors under Different Instructional Conditions" in the Bulletin of the Psychonomic Society, 21(3), (1983) 190-192.

Seed Certification

J. O. Black (Hd, Lect) was elected to the executive committee or the board of directors of the Association of Official Seed Certifying Agencies (AOSCA) at that group's 65th annual meeting in Little Rock, Ark., June 6-9, and concluded a two-year term as chairman of the AOSCA General Certification Committee.

Sociology

The following papers were presented at the annual Southern Sociological Society meeting in Atlanta, Ga., in April:

-- "Testing Tools and Techniques for Industrial and Clinical Sociologists" by H. M. Clark (Asst Prof).

-- "Is a Synthesis of Marx and Durkheim Possible? The Case of Criminological Theory" by W. M. Wentworth (Asst Prof).

Prof. Clark presented "Cognitive Elements in Adolescent Male Suicide" at the American Association of Suicidology meeting in Dallas, Texas, in April.

Prof. Wentworth published a review of A Social Psychology of Developing Adults by T. O. Blank in Contemporary Sociology, Vol. 12(3), (May 1983).

R. F. Larson (Prof & Hd) published Study Guide for Statistics (Boston, Mass., Duxbury Press, 1983). He was also appointed an associate editor of the Review of Religious Research.

CU EVENTS

AUG 31 1983

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Sept. 5-12

WORKSHOPS, CONFERENCES AND SEMINARS

- 6-7 Conference: Second Annual Southeastern Trade Conference -- "Focus on International Economic Interdependence." Sponsored by College of Agricultural Sciences, College of Liberal Arts, Strom Thurmond Institute of Government and Public Affairs and the U. S. Department of Commerce, Ramada Inn. Free to faculty and staff, \$45 registration fee for others. Call 656-3460 or 656-2396 for more information.
- 6 Seminar: "Determination and Sources of Capital." Sponsored by Small Business Development Center, Sirrine Hall Auditorium, \$15. Call 656-3227 for more information.
- 7 Symposium: "Faculty Burnout." Participants include Judith Haislett, director of the Counseling Center, Priscilla Ramsey, assistant professor, College of Nursing, and Lauretta Park, director of the Stress Clinic. Sponsored by the Clemson University Chapter, American Association of University Professors, 108 Strode Tower, 4 p.m. Refreshments will be served.
- 7 Short Course: "Fall Fashions." Sponsored by University Union, 7-9 p.m. Sign up at Union Information Desk, or call 656-2461 for more information. Free.
- 8-9 Conference: "Health Promotion and the Occupational Health Nurse." Sponsored by Nursing Continuing Education and the S.C. Occupational Health Nurse Association, Ramada Inn. Preregistration is required. Call 656-3078 for more information.
- 12-30 Workshop: "Professional Development for Outdoor Recreation Management." Introduces participants to new planning and management dimensions and updates their existing technology of outdoor recreation management. Sponsored by parks, recreation and tourism management department, Lehotsky Hall. Call 656-2198 for more information.

CV ENVIROS

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CU EVENTS (cont.)

OPENLINE

(Openline is South Carolina Educational Television's public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Openline airs on Channel 29 at 7:30 p.m. Call 656-2061 for more information.)

- 6 Second Annual Southeastern Trade Conference participants -- Benoit Liger, deputy director of European Economic Communities Delegation to the U.S.; Melvin Sims, general sales manager, Commodity Credit Corporation; and Ray Shockley, executive vice president, American Textile Manufacturers Institute.
- 12 B. R. Skelton, professor of economics, talks on labor relations.

LECTURES

- 7 English Hour lecture by Frank Day, associate professor of English. Sponsored by English department, 108 Strode Tower, 8 p.m. Open to public. Free. Call 656-3151 for more information.

EXHIBITS

- 5-26 Walter Stevens Paintings. Abstract landscapes in acrylic and watercolor organized by University of Tennessee. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.

CONCERTS

- 5 Clemson University Concert Series: Festival Arts Trio. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students free with activity card, others present season tickets, (\$20 adults, \$10 student) or tickets may be purchased at the door, (\$6 adults, \$2 students). Call 656-3043 for more information.
- 8-9 "The Blanks." Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information,

FILMS

- 5 "My Fair Lady." Sponsored by University Union, Y-Theater, 8 p.m. Admission \$1 with University I.D. Call 656-2461 for more information.

CU EVENTS (Cont.)

- 6-8 Comedy Film Festival -- The Three Stooges, W. C. Fields and Abbot and Costello. Sponsored by University Union, The Gutter, 8-11 p.m. Call 656-2461 for more information.
- 8-10 "M*A*S*H." Sponsored by University Union, Y-Theater, 7 p.m. and 9:15. p.m. Admission \$1.50 with University I.D. Call 656-2461 for more information.
- 11 "Dirty Harry." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.

SPORTS

- 10 Football: Boston College, away, 6 p.m.
- 11 Soccer: Eckerd, here, 2 p.m.

OTHER EVENTS

- 8 Pep rally for Boston College game. Sponsored by Central Spirit, Outdoor Theater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.
- 10 Horseback riding. Sponsored by University Union, 9:30 a.m - 2:30 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 10 Budweiser Beer Blast with "Chairman of the Board Band" and "Showmen." Sponsored by University Union, noon-5 p.m. \$3 student, \$5 others, \$6 at the door.



SEP 8 1983

BUDGET INCREASE IN '84-85 UNLIKELY, SAYS PUBLIC AFFAIRS OFFICER

Wade Green, head of the University's public affairs office in Columbia, told the President's Council Aug. 26 that, though it's much too early to make any firm predictions, the outlook for a major budget increase for Clemson in 1984-85 isn't very promising at present.

He said current "working figures" in use in Columbia project a revenue jump of about \$200 million for the state next year. But, he said, after built-in and traditional spending increases are factored in, there'll probably only be from \$8 to \$18 million that Clemson "might be able to compete for" realistically.

And he emphasized those numbers are based on estimates that assume the economy will continue to improve and that current revenue projections will prove true. The bottom lines of the state's and the University's final 84-85 budgets may be affected by changes in any number of a host of economic contingencies.

Green is the University's chief liaison with the General Assembly and with state government in general.

Statistics indicate a successful summer

In other business before the Coun-

Continued on page 2.



CORNY COOKS -- Members of the fire department proved Aug. 26 that they can tend fires as well as put them out -- by cooking up a feast during the 8th Annual Firemen's Shrimp Dinner at the fire station on Perimeter Road. Practicing their culinary talents are, from left, firefighters Mike Rowland, Darryl Burgess (volunteer) and Dave Burns. Earlier in the summer, Clemson firefighters proved their abilities as quick-change artists -- by placing third among 19 teams in the equipment event at the S.C. State Firemen's Association competition in Myrtle Beach. The Clemson team changed from street clothes to firefighting dress in 61 seconds.

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cil, Vice Provost Jerry Reel, chairman of the Commission on Undergraduate Studies, reported that students in the University's 1983 summer sessions earned 31,305 credit hours, 3.5 percent more than last year and the second highest amount ever.

The first summer session produced about 18,000 credit hours, and the second produced around 13,300.

In all, more than 900 classes were held during the summer, the highest number ever.

Reel said the experimental nine-week session offering basic courses to some incoming freshmen in order to reduce the demand for those courses in the fall did not prove as attractive as expected.

He said more than 300 students were accepted for admission this fall provided they took certain basic courses during the nine-week summer session.

Of those, only 121 agreed to do that, which suggests, Reel said, that the true demand in some currently highly popular engineering and computer-related disciplines "is much softer" than it at first appears.

Reel noted that other academic activities during the summer included career workshops for minority students and special programs for teachers of biology, grammar and rhetoric.

He said the summer's cultural calendar included three course-related film series and two course-related plays.

Reel, who is also responsible for new faculty/staff orientation each August, said 102 employees participated in the program this year.

He invited comments and suggestions for improving the day-long program, but he noted that there isn't much room left in the schedule for adding activities.

As chairman of a committee appointed by President Atchley in July to review the Council's structure and operation with an eye on making the Council more efficient and effective, Reel invited comments and suggestions on that as well.

He said those comments and suggestions should be sent to his office, 209 Sikes, by Oct. 28.

Extension employees seek more representation

Prompted by a report from the Commission on Faculty Affairs, the Council briefly discussed increasing the role of non-faculty Extension personnel in the University's decision-making process.

Commission chairman Holley Ulbrich, president of the Faculty Senate, relayed a Senate recommendation that the Council appoint a committee to study the issue of non-student, non-faculty involvement in University-wide search and screening processes.

The recommendation resulted from an Extension Senate request for Extension representation on search and screening committees for University president and provost.

Ulbrich said the Faculty Senate chose not to act on the proposal because it raises a broader issue that is outside the Faculty Senate's jurisdiction.

Emory Jones, president of the Extension Senate and a new member of the President's Council, said Extension employees, especially those in the counties, at times feel left out of the mainstream of the University.

He said county Extension staffs, who are often called upon to promote the University in their local areas and to help with statewide University activities and projects, feel deserving of more representation in University matters.

The Council took no action on the

topic, which will be studied further.

HOT RESEARCH PROPOSALS PROMISED COOL \$\$\$\$ IN SCANDINAVIA

If the sweltering temperatures of recent weeks have you struggling to find a cool place to think, you may want to consider a trip to Iceland. A few weeks -- or a year -- in that, or any one of the other Scandinavian countries, could be yours, if you come up with a hot study proposal.

For outstanding research proposals, the American Scandinavian Foundation is offering grants of \$1,500 for short-term study and fellowships of \$7,500 for a full year of study, says Jack Stevenson, director of the Honors Program. A total of \$181,500 will be awarded during the 1984-85 academic year.

Although anyone at the graduate level or above may apply for the grants, says Stevenson, "priority for the fellowships is given to candidates at the dissertation level."



The Clemson University Newsletter is published for Dwight Vines, an associate professor of dairy science, and for all the members of the University faculty and staff by the department of information and public services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

In making the awards, he says, ASF considers the significance of the proposal, the qualifications of the applicant to pursue the program and the merit of pursuing the program in Scandinavia. Financial need, too, is considered.

You should also be able to demonstrate the language proficiency necessary for your project, says Stevenson. He adds, however, "ASF weighs heavily the intention of candidates to acquire some proficiency in the language of the country, even if that may not be necessary to carry out your research plan."

Although the application deadline for the 1984-85 academic year is Nov. 1, 1983, Stevenson encourages you to apply early, since you must provide full documentation and ample supplementary materials showing evidence of your qualifications for the proposed project.

For more information on how you may apply for study in a Scandinavian country through the ASF, call Stevenson at 656-2184.

SMITH AND O'DELL SCHOLARSHIPS PROVIDE \$20,000 FOR AGRICULTURAL STUDENTS

Two new scholarship funds, established by the S.C. Rural Rehabilitation Corp., will provide \$20,000 per year to students in the College of Agricultural Sciences, Dean Luther Anderson has announced.

The Clifford T. Smith Scholarship, which will annually provide \$1,000 scholarships to 10 undergraduate students, honors the Clemson alumnus and Kinard native who pioneered the modern agricultural practices of artificial insemination and complete fertilization of pastures.

Smith, named to the S.C. Dairy Hall of Fame in 1971, received the Alumni As-

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Continued from page 3.

sociation's Distinguished Service Award in 1979. He served as supervisor of the Newberry Soil Conservation District for 17 years and is a past member of the Governor's Advisory Council on Agriculture.

The Samuel W. O'Dell Scholarship will each year provide \$1,000 scholarships to five undergraduate students and a \$5,000 fellowship to one graduate student.

A Liberty native who worked with the Farmers Home Administration for 36 years, O'Dell managed Palmetto Farms Inc., a federal agency established during World War II to aid families displaced by land-reclamation projects.

In 1969 he received a citation and award of merit from the U.S. Secretary of Agriculture for his work with the FHA, and in 1975 he received a commendation from the Lee County Chamber of Commerce for his work in organizing the Lee County Joint Planning Commission.

Graham named acting head of agronomy and soils

Also, Dean Anderson has appointed Doyce Graham, a professor of agronomy and soils, acting head of that department for one year, while department head Garnet Craddock is on sabbatical.

Graham joined the Clemson faculty in 1966. He received his bachelor's degree in agronomy from Texas Tech and his master's and doctorate in plant breeding and genetics from Purdue.

KEOWEE VISITOR CENTER OFFERS ENERGY INFORMATION TO FACULTY AND STAFF

If the class you teach, the club you chair, or the student group you advise needs an energetic presentation this semester, you may want to check out the free educational materials and programs

offered by Keowee-Toxaway Visitor Center at Duke Power's Oconee Nuclear Station.

Linda Law, energy education representative at Keowee-Toxaway, says the center has "tremendous resources for assisting in the teaching of energy technologies and other energy issues."

The five-member staff will visit your classroom or other meeting place with films, literature and props intended to improve the public's understanding of nuclear and other forms of energy, Law says.

"We know we can't compete with your level of knowledge [University], but we would like to help supplement," she says, "and we are careful in our attempt to give a balanced view of nuclear energy."

The center has information on topics such as low-level radioactive waste disposal, coal as a fuel of the future, fuels from biomass, energy from the winds, and radioactive waste management.

Tours of the Oconee plant are arranged on occasion for classes and other organized groups, Law says, "but in a time when field-trip money may be hard to come by, we can bring our programs out to your class or group."

For information on how you can use the information available at the center, call Law at 882-5620.

FACULTY REMINDED OF NOV. 1 DEADLINE FOR RESEARCH GRANT APPLICATIONS

Members of faculty who will be applying for research grants this year should plan now to pick up an application form at the Office of University Research, (E-102 Martin Hall) or call 656-2375 for more information.

Only proposals using the OUR Committee application will be considered, says associate director Robert Henningson.

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Sept. 9-16

WORKSHOPS, CONFERENCES AND SEMINARS

- 12-30 Workshop: "Professional Development for Outdoor Recreation Management." Introduces participants to new planning and management dimensions and updates existing technology of outdoor recreation management. Sponsored by parks, recreation and tourism management department, Lehotsky Hall. Call 656-2198 for more information.

- 12 Sign-up deadline for "Jewelry Making" and "Public Relations" short courses. Sponsored by University Union. Call 656-2461 for more information.

- 13 Short Course: "Beginning Bridge." Sponsored by University Union, 7-9 p.m., \$3. Sign up at Union Information Desk, or call 656-2461 for more information.

- 13 Seminar: "Legal Aspects of Small Businesses." Sponsored by Small Business Development Center, Sirrine Hall Auditorium, \$15. Call 656-3227 for more information.

- 13 Short Course: "Car Maintenance." Sponsored by University Union, 6-8 p.m., \$5. Sign up at Union Information Desk, or call 656-2461 for more information.

- 13-14 Workshop: "Quality Control." Sponsored by Professional Development. Call 656-2200 for more information.

- 13-14 "S.C. Flower Growers' Short Course." Sponsored by S.C. Cooperative Extension Service and the S.C. Greenhouse Growers' Association, Ramada Inn. Call 656-3403 for more information.

- 13-15 Short Course: "CPR." Sponsored by University Union, 7-10 p.m., \$6. Call 656-2461 for more information.

- 14 Short Course: "Library Usage." Sponsored by University Union, 7-9 p.m. Free. Sign up at Union Information Desk, or call 656-2461 for more information.

GOVERNMENT

The Government of the United States is composed of three branches: the Executive, the Legislative, and the Judicial. The Executive branch is headed by the President, who is elected by the people for a four-year term. The President has the power to veto laws passed by Congress, to appoint and remove federal judges, and to declare war. The Legislative branch is composed of the House of Representatives and the Senate. The House is elected by the people, while the Senate is elected by state legislatures. Both branches have the power to pass laws, and the Senate has the power to confirm or reject presidential appointments. The Judicial branch is headed by the Supreme Court, which is composed of nine justices. The Court has the power to interpret the Constitution and to review laws passed by Congress to determine if they are constitutional.

The Government also includes various departments and agencies that carry out the day-to-day operations of the country. These include the Department of State, the Department of Defense, the Department of Justice, and the Department of Education, among others. Each department is headed by a cabinet member who reports to the President. The agencies are responsible for implementing the policies and laws of the Government.

The Government is also responsible for protecting the rights and freedoms of its citizens. This includes enforcing laws, maintaining order, and providing social services. The Government also has the power to raise and spend money, which is used to fund various programs and services. The Government is also responsible for representing the United States in international relations and for protecting its interests abroad.

The Government is a complex system, and it is constantly evolving. As the needs of the country change, the Government must adapt to meet those needs. This is why it is important for citizens to stay informed about the Government and to participate in the democratic process. By voting in elections and staying engaged in public life, citizens can help to shape the future of the United States.

CU EVENTS (Cont.)

- 14 Sign-up deadline for "Sea Kayaking" course. Sponsored by University Union. Call 656-2461 for more information.
- 15 Sign-up deadline for "Beginning Golf" course. Sponsored by University Union. Call 656-2461 for more information.

CAROLINA JOURNAL

(Carolina Journal, formerly "Openline," is South Carolina Educational Television's public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Carolina Journal airs on Channel 29 at 7:30 p.m. Call 656-2061 for more information.)

- 12 B. R. Skelton, professor of economics, talks on labor relations.

EXHIBITS AND CONCERTS

- 9-26 Walter Stevens Paintings. Abstract landscapes in acrylic and watercolor organized by University of Tennessee. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday, 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 13 Chamber Music Series. Christopher Berg, classical guitarist. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 15 "Kier Irmiter." Sponsored by University Union, Edgar's, 8:30 p.m., \$1.50. Call 656-2461 for more information.

SPORTS

- 11 Soccer: Eckerd, here, 2 p.m.
- 15 Soccer: SIU-Edwardsville, here, 8 p.m.

OTHER EVENTS

- 10 Horseback riding. Sponsored by University Union, 9:30 a.m.-2:30 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 10 Budweiser Beer Blast with "Chairman of the Board Band" and "Showmen." Sponsored by University Union, noon-5 p.m., \$3 students; \$5 others (\$6 at the door). Call 656-2461 for more information.

The first part of the paper discusses the importance of the study and the objectives of the research.

The second part of the paper describes the methodology used in the study and the data collection process.

The third part of the paper presents the results of the study and discusses the findings.

The fourth part of the paper discusses the implications of the study and the conclusions drawn from the research.

The fifth part of the paper discusses the limitations of the study and the areas for future research.

The sixth part of the paper discusses the contributions of the study to the field of research.

The seventh part of the paper discusses the practical applications of the study and the recommendations for practice.

The eighth part of the paper discusses the ethical considerations of the study and the measures taken to ensure ethical standards.

The ninth part of the paper discusses the acknowledgments and the funding sources of the study.

The tenth part of the paper discusses the references and the sources used in the study.

The eleventh part of the paper discusses the appendices and the additional information provided.

The twelfth part of the paper discusses the index and the location of the information in the paper.

The thirteenth part of the paper discusses the glossary and the definitions of the terms used in the study.

The fourteenth part of the paper discusses the bibliography and the sources used in the study.

The fifteenth part of the paper discusses the conclusion and the final thoughts on the study.

The sixteenth part of the paper discusses the final remarks and the closing thoughts on the study.

The seventeenth part of the paper discusses the final conclusions and the overall findings of the study.

The eighteenth part of the paper discusses the final thoughts and the closing remarks on the study.

CU EVENTS (Cont.)

- 13-15 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 10:10 a.m. on the 13th and 2 p.m. on the 15th. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.
- 13 College Bowl Orientation. Union Loggia, 7-9 p.m. Call 656-2461 for more information.
- 14 Meeting: Women in Higher Education Network, business meeting and welcome to new faculty and staff. Holiday Inn, 11:45 a.m.-1 p.m. \$5 fee includes buffet lunch. Call 656-2353 for more information.
- 16 Pep rally for Georgia game. Sponsored by Central Spirit, amphitheater, midnight. Open to all Clemson football fans. Call 656-2153 for more information.
- 16 Caribbean Cooler. Sponsored by University Union, Y-Beach, 3-6 p.m. \$1.50. Call 656-2461 for more information.
- 16 Face painting. Get a tiger painted on your nose for the pre-Georgia game pep rally. Sponsored by University Union, Loggia, 3-5 p.m. Call 656-2461 for more information.

The first part of the paper discusses the importance of the study and the objectives of the research. It also mentions the scope of the study and the limitations of the study.

The second part of the paper discusses the methodology used in the study and the data collection process.

The third part of the paper discusses the results of the study and the findings of the research.

The fourth part of the paper discusses the conclusions of the study and the implications of the findings.

The fifth part of the paper discusses the limitations of the study and the areas for future research.

The sixth part of the paper discusses the references used in the study.

September 14, 1983
Vol 23 No 5 [4]

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



SEP 15 1983



Clemson

CELEBRATION TO MARK FOUNDER'S INDUCTION INTO S.C. HALL OF SCIENCE AND TECHNOLOGY

All faculty and staff members are invited to join the celebration next week, when the University honors its founder upon his induction into the S.C. Hall of Science and Technology.

Two public lectures will be presented to mark Thomas Green Clemson's posthumous selection for the Hall, which recognizes outstanding South Carolina scientists, teachers of science and advocates of scientific research and development.

The Hall chose to honor Clemson for

his "convictions, vision and determination" and because of the "crucial scientific and technological role" the University has played in South Carolina.

Next Thursday, Sept. 22, Ernest M. Lander Jr., Alumni Professor of History, will provide a glimpse into Clemson's world with a talk on "The Turbulent Private Life of Thomas Green Clemson." Lander will speak at 7 p.m. in Lee Hall's Lyles Auditorium.

In the same auditorium the next day, Friday, Sept. 23, at 3 p.m., Reuven M. Sacher, director of biological research at Monsanto Agricultural Products, will speak on "Genetic Engineering and the Future."

A public reception will be held in Lee Gallery after each lecture.

The formal induction of Clemson, who helped to establish scientific and agricultural education as a national priority, will happen Friday at a banquet in the Clemson House.

Thomas Clemson was the nation's first superintendent of agricultural affairs and a strong supporter of the Morrill Act, which in 1862 established the land-grant college system.

Throughout the celebration, a selection of his letters and papers will be on display in the Special Collections section of the Cooper Library.

You may also want to visit Fort Hill, once Clemson's home and now the centerpiece of the University. The house is open from 10 a.m. to 5:30 p.m. Tuesday through Saturday and 2-6 p.m. Sunday.



CLEMSON
UNIVERSITY

PRESIDENT

September 1, 1983

ALL MEMBERS OF THE
FACULTY AND STAFF:

With the new academic cycle in progress, Mrs. Atchley and I would like to welcome you to what we trust will be an exciting and challenging year. It is gratifying to have so many returning members of the faculty and staff, and we are delighted to have an outstanding group of newcomers joining the Clemson family for 1983-84.

In order to greet each of you personally, you are cordially invited to attend a reception at the President's Home from 7:00 to 10:00 in the evening, Friday, September 30, 1983. In the event of inclement weather we will greet you at the Clemson House.

We hope you will be able to be with us.

Sincerely,

Bill L. Atchley

BLA/rc

PROVOST LISTS UNDERGRADUATE SCHOLARSHIPS AMONG TOP PRIORITIES FOR THE YEAR

Increasing the number of "top-level" scholarships at Clemson for academically outstanding students ranks at the top of Provost David Maxwell's priority list for 1983-84.

Not far behind are his pledge "to protect and solidify" Clemson's mission as South Carolina's "major university for science and technology" and the goal of easing the University's critical need for more and better teaching equipment.

In an interview with the Newsletter at the beginning of the semester, Maxwell outlined his goals and objectives for the year. He said the need for more scholarships is "a particularly pressing matter."

"We have only a few top-level scholarships," he said, "and we are having particular difficulty attracting the better in-state students -- those who score between, say, 1150 and 1300 on the SAT -- because other in-state institutions are providing them more attractive packages.

"The same is true of outstanding minority students. Our summer workshop

students end up elsewhere because they get more attractive financial aid from other institutions."

Maxwell said he plans to work closely with the Alumni Association and with the faculty and staff to find ways to boost scholarship contributions.

On the matter of Clemson's mission, Maxwell said the Commission on Higher Education plans to revise the mission statements in its "Master Plan" for public higher education in South Carolina.

He said his goal is to have that process result in "an overt designation of Clemson as the state's major university for science and technology."

"The thing we hang our hat on is our mission as the state's land-grant university -- as the center for agriculture, engineering, science and technology in this state. We've got to protect this mission," he said.

Another CHE-related priority Maxwell has for '83-84 is to ensure objectivity in the "Quality Improvement Program," through which the commission awards special funding from the Legislature as "quality improvement" grants to colleges and universities based on proposals submitted.

He said CHE may have as much as \$2 million in special "quality improvement" funds during the year to spend in the "faculty development area." Maxwell said he believes that money should not be divided across-the-board among all state schools.

"In the past CHE has shown evidence of a something-for-everyone philosophy in the allocation of special funds," he said. "We must work to see that the review process this time is competitive and objective, no matter how we fare in the competition."

Maxwell said he favors having propos-

Continued on page 4.



The Clemson University Newsletter is published for Susan Whitmire, accounting clerk in financial management, and for all the members of the University faculty and staff by the department of information and public services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Continued from page 3.

als subjected to a blind review by persons with no ties to any South Carolina institutions.

Priority list includes
equipment, ongoing projects

"One of the first priorities for the coming year," Maxwell said, "has to be to work off some of our tremendous backlog of equipment needs."

This will include making some University funds available in September for equipment, asking the state for more equipment money, and "spurring the colleges on" in seeking equipment gifts from industry, he said.

But catching up won't be possible this year, and it won't get any easier or less expensive, he said. He estimated that the University needs to spend around \$4 million annually just to keep up with equipment needs.

"We won't gain any ground this year," he said, "because we don't have \$4 million to spend [on equipment]."

The provost said automation, computerization and furnishing of the library will remain high-priority items.

In particular, the library will continue its phase-in of NOTIS, a comprehensive, automated, control system for all functions related to acquiring and managing library materials.

Also, the need to replace some of the library's tables and chairs will be addressed. "More people are using the library than ever before," Maxwell said. "But some of the furniture there was bought in the '60s, and it's simply becoming dilapidated."

Maxwell said he will continue to work on the need for more and better equipped laboratories, mentioning specifically those in the sciences and engineering.

Plus, his list for the year includes completing the labs needed in the "new and promising program" in graphics communications and continuing "the spread of microcomputers throughout our curricula."

Considerable effort also will be spent in the University's continuing attempt to offer a baccalaureate nursing program at Greenville TEC.

Provost wants better plans,
says new program under study

New projects the provost said he wants to accomplish this year include developing "better plans for what we would like to do on the Experiment Stations."

He said such plans should address land use, facilities, educational and research programs, and finances to determine if there are more and better ways to serve the state through the Experiment Station system.

Finding new ways to serve the state, he said, could result in getting more state money for the Experiment Station.

Another new item is the possibility of developing an undergraduate program in industrial biology. Maxwell said there appears to be a growing need in industry for trained professionals "to deal with environmental rules and regulations and so forth."

"We're just beginning to look at [the possibility of setting up a program]," he said. "The relevant curriculum committees are studying it now. It obviously would have to be a wide program involving several of our colleges."

Academic planning panel still busy;
proposed planning panel still possible

The provost said the committee he appointed in January 1982 to conduct a comprehensive review of all academic programs should have its report on master's

programs ready this semester.

The Academic Planning Committee finished its Ph.D. study last year and began looking at the master's level in January.

Maxwell said the Ph.D. report "is being held in abeyance until the master's report is completed. Then we'll be able to make an overall evaluation of the graduate programs in each department."

As for his continuing discussion with the Faculty Senate about the possibility of the University setting up a "Long-Range Planning Committee," Maxwell said that's still a live issue.

He said he favors having a standing committee to monitor the University's compliance with the most recent institutional self-study and to develop contingency plans in areas such as faculty reductions-in-force.

"But what we don't need is a super-curriculum committee," he said. "We have a good structure in [curriculum development] now. We don't need another layer [in that structure]."

The Senate and the provost have traded several draft versions of what the proposed committee's functions should be.

President Bill Atchley joined the exchange Aug. 23, when, during an address to the Senate, he presented a draft of his own.

The Senate sent Atchley's proposal to a committee for study. Maxwell said he expects discussion of the president's draft to be the next step.

PANEL STUDYING PRESIDENT'S COUNCIL WANTS
COMMENTS FROM FACULTY, STAFF, STUDENTS

At least six people want to know what you think.

The six make up the panel appointed in July by President Bill Atchley to review the structure, operation and effectiveness of the President's Council.

And, says Vice Provost Jerry Reel, who's chairing the review, the committee is open to comments, ideas and suggestions about the President's Council from all members of the faculty, staff and student body.

"All opinions are solicited," he says.

But don't just talk about it and don't procrastinate. Your written comments and opinions must reach the review committee by Friday, Oct. 28, to be included in the panel's deliberations.

The president wants the committee's report and recommendations in January.

The review's purpose, says Reel, is to examine the structure of the Council, its commissions and their committees.

Further, the reviewers will consider relationships between the Council and University groups that aren't parts of the Council's organization.

Based on their study, the reviewers will recommend any additions, deletions, corrections, or other changes the panel thinks should be made.

You may address your written comments and suggestions to any one of the review committee members. They are:

-- Vice Provost for Undergraduate Studies Jerry Reel, chairman of the Commission on Undergraduate Studies, 209 Sikes Hall (656-3022);

-- Dean of Agricultural Sciences Luther Anderson, chairman of the Commission on Public Service, 101 Barre Hall (656-3015);

-- Vice President for Student Affairs Walter Cox, chairman of the Com-

Continued on page 6.

Continued from page 5.

mission on Student Affairs, 202 Sikes Hall (656-2161);

-- Executive Director of University Relations Harry Durham, chairman of the Commission on Public Programs, Trustee House (656-2061);

-- Vice Provost and Dean of the Graduate School Arnold Schwartz, chairman of the Commission on Graduate Studies and Research, E-105 Martin Hall (656-3195);

-- Faculty Senate President Holley Ulbrich, chairman of the Commission on Faculty Affairs, 212 Sirrine Hall (656-3481 or 2456).

The President's Council was established in January 1981 to advise Clemson's president and provost on matters of University governance.

Also, according to its constitution, the Council may review and make recommendations on matters proposed by other University bodies, may refer matters to other bodies, and may perform other functions as directed by the president.

The Council has 27 voting and six non-voting members. Among them are vice presidents, executive officers, academic deans and department heads, faculty members, Extension representatives, and undergraduate and graduate student leaders.

You'll find a detailed description of the Council and its associated commissions and committees on pages 12-21 of Part IV of the Faculty Manual. To find a copy of the Faculty Manual, check with the nearest college dean, academic department head or faculty member or with Tolly Taylor in 209-B Sikes Hall.

EXTENSION SERVICE NAMES HOME HORTICULTURIST

Gardeners and lawn-care enthusiasts

who need help with polishing their green thumbs may now call on Alta Kingman, new Extension Service home horticulturist.

Extension director Wayne T. O'Dell has named Kingman, an assistant professor of horticulture, to the newly created half-time position to perform duties that used to be shared by several Extension faculty and staff members.

Kingman will combine her new responsibilities in home horticulture with her teaching duties.

As home horticulturist, Kingman will answer inquiries referred by county Extension agents, host the statewide "Plant Professor" radio program, serve as horticulture resource person for the news media, and work with Extension's Master Gardener Program.

She earned her bachelor's degree in education from Winthrop College and her master's and doctorate in horticulture here. Before joining the horticulture staff in 1971 as an instructor, she taught in Spartanburg County schools and at Tri-County Technical College.

In addition to working with garden clubs and greenhouse educational programs, she helped to plan and develop the Clemson Horticultural Gardens and its Garden for the Blind.

LIBRARY OFFERS RESEARCHERS FREE CONSULTATION SERVICE

As you walk into the Cooper Library, your research topic in hand, you find yourself in a maze of journals, indexes, abstracts, documents and other resource materials, all of which raise a bewildering question: "Where do I start?"

The place to start, suggests Peggy Cover, head of the reference unit, is with a phone call before you go to the library. Phone ahead and make plans to use their free consultation service.

The consultation service, begun last spring, assures you of getting help with your research methods and search strategies when you need it, says Cover.

"If you come in without an appointment, we may or may not be able to help," she says. "But when you call for our consultation service, a reference librarian will reserve a time for you -- usually about an hour -- and then do some preliminary research on your topic before you come in."

During your appointment the librarian will identify the resources available on your topic, show you where they are in the library and explain how to use them.

In addition to assuring you personal assistance with your research, the consultation service will save you time and acquaint you with the major resources available, says Cover.

To make an appointment for a conference with a reference librarian, call

the library at 656-3024. Conferences are scheduled between 8 a.m. and 5 p.m. Monday through Friday.

COMMITTEE REMINDS FACULTY
OF GRANT PROPOSAL DEADLINE

Applications for University Research Grant Committee grants must be in the Office of University Research (E-102 Martin Hall) not later than Nov. 1.

Application forms are available in the research office, and only proposals using committee forms will be considered.

The Committee makes awards to new faculty members, to faculty members re-directing research interests, and to faculty members in areas where research support is inadequate or nonexistent.

If you have questions, call the research office at 656-2375.



CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Sept. 16-23

WORKSHOPS, CONFERENCES AND SEMINARS

- 19 Short Course: "Jewelry Making." Sponsored by University Union, 6-9 p.m., \$5. Sign up at Union Information Desk, or call 656-2461 for more information.
- 19 Short Course: "Public Relations." Sponsored by University Union. \$5 for organizations; \$7 for others. Sign up at Union Information Desk, or call 656-2461 for more information.
- 19-20 "Nurse Manager Series I -- Assertiveness Management and Unit Budgeting." Sponsored by Nursing Continuing Education. Preregistration is required. Call 656-3078 for more information.
- 20 "Developing a Marketing Plan." Sponsored by Small Business Development Center, Sirrine Hall Auditorium, \$15. Call 656-3227 for more information.
- 20 Short Course: "Darkroom Skills." Sponsored by University Union. \$10. Sign up at Union Information Desk, or call 656-2461 for more information.
- 20 Sign up deadline for October "CPR" Short Course. Sponsored by University Union. Call 656-2461 for more information.
- 20-21 Workshop: "Robotics in Textiles." Sponsored by Professional Development. Call 656-2200 for more information.
- 20-22 Workshop: "Shuttleless Looms." Sponsored by Professional Development. Call 656-2200 for more information.
- 22 Conference: "Co-op Career Day," a program to acquaint students with the opportunities available through the co-op plan. Sponsored by Office of Cooperative Education, Palmetto Room, Student Union, 9 a.m.-3p.m. Open to all undergraduate and graduate students. Free. Call 656-3150 for more information.

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CU EVENTS (cont.)

- 22 Short Course: "Beginning Golf." Sponsored by University Union. \$10. Call 656-2461 for more information.

CAROLINA JOURNAL

(Carolina Journal is South Carolina Educational Television's Public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Carolina Journal airs on Channel 29 at 7:30 p.m. Call 656-2061 for more information.)

- 19 Ernest M. Lander Jr., Alumni Professor of history, talks about Thomas Green Clemson.

LECTURES

- 22 "The Turbulent Private Life of Thomas G. Clemson," by Ernest M. Lander Jr., Alumni Professor of history. Sponsored by Alumni Association, Lyles Auditorium, Lee Hall, 7 p.m. Reception to follow at Ft. Hill lawn. Open to public. Free. Call 656-3451 for more information.
- 23 "Impact of Genetic Engineering in Biological Sciences," by Reuven M. Sacher, director of biological research, Monsanto Chemical Company, St. Louis, Mo. Sponsored by Alumni Association, Lyles Auditorium, Lee Hall, 3 p.m. Reception to follow at Ft. Hill lawn. Open to public. Free. Call 656-3451 for more information.

CONCERTS

- 22 Sally Fingerette. Sponsored by University Union, the Gutter, 8-11 p.m. \$1. Call 656-2461 for more information.
- 23 Hank Williams Jr. with guest stars. Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Tickets (\$10 and \$11) are on sale at the Union Box Office. Call 656-2461 for more information.

FILMS

- 18 "The Promise." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D.
- 19 "The Great Gatsby." Sponsored by University Union, Y-Theater, 8 p.m. Admission \$1 with University I.D. Call 656-2461 for more information.
- 21 "Breathless." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.

The first part of the document is a list of names and addresses of the members of the committee.

The second part of the document is a list of names and addresses of the members of the committee.

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CU EVENTS (cont.)

- 22 "Lords of Discipline." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with University I.D.

SPORTS

- 17 Football: Georgia, here, 1 p.m.
- 21 Soccer: Furman, here, 8 p.m.

OTHER EVENTS

- 16 Pep rally for Georgia game. Sponsored by Central Spirit, amphitheater, midnight. Open to all Clemson football fans. Call 656-2153 for more information.
- 16 Caribbean Cooler. Sponsored by University Union, Y-Beach, 3-6 p.m., \$1.50. Call 656-2461 for more information.
- 16 Face painting -- get a tiger painted on your nose for the pre-Georgia game pep rally. Sponsored by University Union, loggia, 3-5 p.m. Call 656-2461 for more information.
- 19 "Men's Fitness," a program of aerobic exercise. Sponsored by the YMCA, YMCA Center. Call 656-2460 for more information.
- 20 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 10:10 a.m. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.
- 20 College Bowl Match. Senate Chambers, 7-9 p.m. Call 656-2461 for more information.
- 21 Video Tournament. Sponsored by University Union, Union Gameroom, 7:30 p.m. Call 656-2461 for more information.
- 23 Thomas G. Clemson Induction Banquet. Sponsored by Alumni Association, Clemson Room, Clemson House, 7 p.m. Call 656-3451 for more information.
- 23 Derby Day, a sorority game day organized to raise money for charity. Sponsored by Sigma Chi Fraternity, Riggs Field. Call 656-2153 for more information.
- 23 Pep rally for Georgia Tech game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

REPORT OF THE
COMMISSIONERS OF THE
UNIVERSITY OF CHICAGO

FOR THE YEAR
ENDING JUNE 30, 1900

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SEP 21 1983

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



'FATHER OF NUCLEAR-POWERED NAVY' TO SPEAK IN TILLMAN OCT. 4

The Strom Thurmond Institute's 1983-84 public lecture series will get under way Oct. 4 with a 3:30 p.m. address in Tillman Hall Auditorium by retired Adm. Hyman Rickover, "Father of the Nuclear-Powered Navy."

The 83-year-old admiral is internationally known for a long list of historic "firsts" accomplished during a military career that began in 1918, when he entered the U.S. Naval Academy.

He developed both the Nautilus, the world's first nuclear-powered submarine, and the Enterprise, the world's first nuclear-powered aircraft carrier.

He developed the world's first full-scale, civilian, nuclear power plant (at Shippingport, Pa.), led the team of engineers and scientists who refined the technology and engineering needed to use nuclear power for ship propulsion, and supervised the construction of nuclear-powered ships for the Navy.

Horace Fleming, director of the Institute, says Rickover is "just a phenomenon to watch."

"Since his achievements span many fields, including education, I think any message he has to bring us will be timely," says Fleming.

Born in Makow, Poland, Rickover came to the United States in 1906. He graduated from the U.S. Naval Academy in 1922 and received a master's degree in electrical engineering from the Columbia University School of Engineering in 1929.

Following Rickover's address at Tillman, a reception sponsored by Student Government will be held at the Alumni Center. Both events are free and open to the public.

Other speakers the Institute has scheduled for this semester include Nicholas Georgescu-Roegen, Distinguished Professor of Economics Emeritus at Vanderbilt University, (Oct. 24) and James L. Ferguson, chairman and chief executive officer of the General Foods Corp., (Nov. 11).

UNIVERSITY AIRPLANE WINGS SUCCESSFULLY TO WASHINGTON

The University airplane's first research mission to Washington, D.C., is aviation history, and, says Office of University Research director Stan Nicholas, researchers are urged to try their wings on the next flight, scheduled for Oct. 4.

"The inaugural flight was a complete success," says Nicholas. "All seven seats were taken, and it was a beautiful trip."

The colleges represented on the trip were ag sciences, engineering, and liberal arts, with the passengers visiting 10 offices, including the National Science Foundation, the Air Force Office of Scientific Research, the Department of Agriculture, the National Agricultural Chemicals Association, and the National Institute of Health.

OUR is sponsoring regularly sched-

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uled, monthly flights of the nation's capital this academic year in an attempt to enhance the University's research program. "Researchers can use such trips to review new, existing or preliminary proposals," says Nicholas.

On the first Tuesday of each month, the research plane will leave Oconee County Airport at 7 a.m. and arrive in Washington at 9 a.m. The return flight will leave Washington at 4 p.m. and get back to Oconee at 6 p.m.

Several seats are still available on the Oct. 4 flight. For more information on making reservations for that or any one of the remaining nine flights, call OUR at 656-2375.

DEADLINES NEAR FOR WOULD-BE RHODES AND FULBRIGHT SCHOLARS

If you're applying for a 1984 Rhodes Scholarship or for a Fulbright Grant, October is deadline month for you, says Honors Program director Jack Stevenson.

The deadline for applying for a Rhodes Scholarship is Oct. 10; for the Fulbright Program the close-out date is Oct. 31.

"We need the Rhodes applications in by Oct. 10 so we can plan for interviews by the 19th and forward the candidate's papers to the state committee by the 31st," says Stevenson.

To be eligible for a Rhodes Scholarship, you must be an unmarried U.S. citizen between 18 and 24 and must have earned a bachelor's degree by Oct. 1, 1984.

"Quality of both character and intellect is the most important requirement for a Rhodes Scholarship," says Stevenson, "and this is what the committees will seek."

A Rhodes Scholarship provides direct payment to the recipient's chosen college for all approved fees, plus an allowance of \$3,630 each year.

Stevenson also says only a few more weeks remain to file applications for grants for graduate study abroad under the Fulbright Program.

He says a total of 670 awards are available for study in more than 70 countries.

While most of the Fulbright grants provide round-trip transportation, tuition and maintenance for the academic year, he says, a few provide international travel only or a partial grant-in-aid only.

A Fulbright recipient must be a U.S. citizen, must hold a bachelor's degree, and must be proficient in the language of the host country.

There are, however, three exceptions to the bachelor's degree requirement. Creative and performing artists may substitute four years of professional study or equivalent experience; students in social work must have a master's degree and two years of professional experience; and candidates in medicine must have a doctorate at the time of application.

For more information on either the Rhodes or Fulbright awards, call Stevenson at 656-4720.

MAKE-UP SCHOLARSHIPS OFFERED TO STUDENTS

If you know any undergraduate students who want to apply for make-up scholarships for the 1983-84 academic year, remind them to submit their financial aid forms to the Financial Aid Office at least four weeks before the Nov. 1 deadline to allow time for processing.

Financial aid director Marvin Carmichael says students who applied for 83-84 scholarships by the Feb. 15, 1983, deadline automatically will be considered and need not reapply.

"However," he says, "to insure that students have previously applied, we recommend that they contact the Financial Aid Office."

Financial aid forms are available in the Financial Aid Office located in G01 Sikes Hall. Call the office at 656-2280 for more information.

COMMITTEE REMINDS FACULTY OF GRANT PROPOSAL DEADLINE

Applications for University Research Grant Committee grants must be in the Office of University Research (E-102 Martin Hall) not later than Nov. 1.

Application forms are available in the research office, and only proposals using committee forms will be considered.

The committee makes awards to new faculty members, to faculty members re-



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Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

directing research interests, and to faculty members in areas where research support is inadequate or nonexistent.

If you have questions, call the research office at 656-2375.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members usually appear in the last Newsletter of each month. However, because of the large number of items received this month, they are being divided. The rest of the announcements will appear in the Sept. 28 Newsletter.

Administrative Programming

J. F. Cox (Proj Ldr) and J. N. Hier (Sr Sys Anlyst) presented a paper, "Department Information Systems," at the National College and Universities Machine Records Conference in Waco, Texas May 1-4.

Also at that conference, M. E. Neil (Proj Ldr) presented a paper, "Materiel Tracking: A Customer Designed System."

Agricultural Education

L. H. Blanton (Assoc Prof) conducted continuing education sessions in school greenhouse/nursery operations during the S.C. Vocational Agriculture Teachers Conference in Columbia July 24-27. At the conference he distributed references prepared by the horticulture department here, along with his publication, A Teaching-Earning Guide: Education and Business in the School Greenhouse/Nursery.

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J. A. Hash (Prof) chaired and participated in a symposium, "Principles and Procedures for Directing Supervised Occupational Experience Programs," at the annual Conference of Teachers of Vocational Agriculture at the University of South Carolina in Columbia July 26.

Also at that conference, Prof. Hash conducted a one-day workshop, "Planning and Evaluating Supervised Occupational Experience Programs for High School Students."

J. H. Rodgers (Prof & Hd) received an award from the Farm Credit Banks for 30 years of service to agricultural education at the S.C. Vocational Agricultural Teachers Association awards banquet in Columbia July 26.

J. H. Daniels (Assoc Prof), R. J. Mercer (Prof) and Profs Blanton, Hash and Rodgers received the National Vocational Agriculture Teacher's Association media award for professional publications in 1982-83.

Biology

The Biology Program hosted the annual meeting of the Association for Biology Laboratory Education (ABLE) June 13-17. D. R. Helms (Dir) was elected first vice president, and W. M. Surver (Assoc Prof) was re-elected treasurer.

At that meeting R. A. Garcia (Assoc Prof) presented a workshop, "Software for Microcomputers in Biology," and S. B. Miller (Asst Prof) conducted a mini-workshop on "Using Fungi in the Biology Laboratory."

Chemistry

R. A. Abramovitch (Prof) presented

an invited lecture, "Enium Ions: Synthetic Applications," at the universities of Montpellier, Grenoble and Lyon in France July 1-6.

Prof. Abramovitch also published a review of the book Heterocyclic Chemistry. Volume I by H. Suschitzky and O. Meth-Cohn (The Royal Society of Chemistry, London) in the Journal of American Chemistry Society, 105 (1983) 2391.

J. D. Petersen (Assoc Prof & Assoc Dean Sci) presented two invited papers: "Intramolecular Energy Transfer Reactions in Polymetallic Complexes" at the Seventh DOE Solar Photochemistry Research Conference at Mills College in Oakland, Calif., June 12-16, and "The Photochemistry of Polymetallic Transition Metal Complexes" at the Ninth Southern California Inorganic Photochemistry Conference" at the University of California in Santa Barbara June 24.

English

J. L. Idol (Prof) edited Thomas Wolfe's K-19: Salvaged Pieces, the fourth annual special publication of the Thomas Wolfe Society. He published an article, "Thomas Wolfe Attends a Performance of Alexander Calder's Circus," in Thomas Wolfe: A Harvard Perspective, 43-52, (Croissant & Co.)

Prof. Idol also published a report, "The Fourth Annual Meeting of the Thomas Wolfe Society: New York University," in the Thomas Wolfe Society Membership List, (1983) 16-20.

M. H. Moran (Vstg Asst Prof) published two articles: "Vocabulary Without Drill: Recent Trends in Pedagogy" in Arizona English Bulletin (May 1983) and "Spots of Joy in the Midst of Darkness: The Universe of Margaret Drabble" in Margaret Drabble: Golden Realms, Living Author Series No. 4 (1982) Pan American University Press.

Prof. Moran also presented two papers: "Trends in Vocabulary Instruction" at the College English Association meeting in Asheville, N.C., in April, and "The Writing Laboratory and Developmental Writing at Clemson University" at a meeting she organized of the S.C. Association of Developmental Educators which met here March 28.

R. B. Rollin (Lemon Prof) presented a lecture on hero figures and social structures to the sociology department at the University of Georgia in Athens, Ga., Aug. 1.

F. W. Shilstone (Assoc Prof) published "Egotism, Sympathy, and George Willard's Development as Poet in Winesburg, Ohio" in West Virginia University Philological Papers, 28 (1982) 105-13. He also published two reviews: Romanticism and the Forms of Ruin: Wordsworth, Coleridge and the Modalities of Fragmentation by Thomas McFarland in Southern Humanities Review, 17 (1983) 82-84, and Coleridge on the Language of Verse by Emerson R. Mark in Concerning Poetry, 16, No. 1 (1983) 93-96.

E. P. Willey (Assoc Prof) published two poems: "Down Home in August" in Old Hickory Review and "Stone Country" in Poetry North Review.

Entomology, Fisheries and Wildlife

The following papers were presented at the Fourth International Symposium on Trichoptera when 77 scientists from 19 states and 16 countries convened here July 11-16:

-- "The Caddisfly Genus Helicopsyche in America North of Mexico (Trichoptera: Helicopsychidae)" by S. W. Hamilton and R. W. Holzenthal (Grad Res Assts).

-- "The Genus Phylocentropus (Trichoptera: Polycentropodidae) in North America, with the Description of a New Species" by Hamilton and G. A.

Schuster (E Kentucky Univ).

-- "Overview of the Neotropical Caddisfly Genus Brachysetodes with the Description of a New Species from Ecuador (Trichoptera: Leptoceridae)" by Holzenthal.

-- "Evolution and Historical Biogeography of Leptocerina and Axiocerina (Leptoceridae, Leptocerinae, Athripsodini)" by J. C. Morse (Prof).

-- "The Diversification of Lepidostomatidae" and "Evolution and Classification of Trichoptera" by J. S. Weaver III (Grad Res Asst).

The following lectures were presented at the S.C. Chapter of the Wildlife Society's High School Teacher Conservation Workshop at the Webb Wildlife Center in Garnett July 18-20:

-- "A History of Wildlife Conservation in the Southeast" and "Waterfowl Management in South Carolina" by T. T. Fendley (Assoc Prof).

-- "Ecological Concepts of Wildlife Management" by J. R. Sweeney (Assoc Prof).

J. W. Foltz (Assoc Prof) presented an eight-hour session, "Hatchery Production Methods," which included a demonstration of the use of micro-computers in fish hatchery management, during a U.S. Fish and Wildlife Service shortcourse in Warmwater Fish Culture at San Marcos, Texas, July 21.

B. M. Shepard (Prof) has co-edited the following publications:

-- "Searching Ability and Host Selection by Euplectrus plathypenae Howard (Hymenoptera: Eulophidae)" in the Journal of Georgia Entomology Society 17: 150-156.

-- "Use of Heating Degree Day and Physiological Day Equations for Pre-

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dicting Development of the Parasitoid, Trissolcus basalis" in Environmental Entomology, 10: 1088-1011.

-- "A Stochastic Model of Parasitism of the Southern Green Stink Bug by Trissolcus basalis (Wollaston)" in the S.C. Agricultural Experiment Station Technical Bulletin No. 1088.

-- "Biology of Microplitis demolitor (Hymenoptera: Braconidae), an Imported Parasitoid of Heliothis (Lepidoptera: Nuctuidae) spp. and the Soybean Looper, Pseudoplusia includens (Lepidoptera: Noctuidae)" in Environmental Entomology 12, 641-645.

Prof. Shepard has also co-edited the following papers in "Natural Enemies of Arthropod Pests in Soybean" published as Southern Cooperative Series Bulletin No. 285:

-- "Geographical and Seasonal Occurrence of Parasites, Predators and Entomopathogens," 7-19.

-- "Sampling Predators, Parasites and Entomopathogens," 20-31.

-- "Use of Imported Natural Enemies Against Insect Pests of Soybean," 63-77.

Environmental Systems Engineering

J. D. Hindman (trng conslt) was elected secretary-treasurer of the National Environmental Training Association at its annual meeting in Salt Lake City, Utah, Aug. 10-13.

Extension Home Economics

C. T. Mounter (Assoc Prof), advisor to the S.C. Extension Homemakers Council, gave a presentation at the pro-

fessional section meeting at the National Extension Homemakers Council Annual Meeting in Laramie, Wyo., Aug. 1-5.

Facilitating Services

L. J. Sanders (Risk Mgr) was awarded the professional insurance designation, Chartered Property Casualty Underwriter (CPCU), by the American Institute for Property and Liability Underwriters in New York, N.Y., Sept. 12.

She has also been elected 1983-84 president of S.C. Insurance Women, an organization which promotes insurance education and professional advancement.

Industrial Education

A. F. Newton (Prof & Hd) represented the Carolina Society for Training and Development at the International Conference of the American Association for Training and Development in Washington, D.C., June 19-24.

Prof. Newton, who is president-elect of the S.C. Vocational Association, presided at the business meeting of the Association in Columbia July 25-27.

Information and Public Services

J. D. Barrett (Asst Ed Pub & Grphs) published a short story, "A Quiet Life," in Woman's Own, (I.P.C. Magazines Ltd., London, England) Sept. 5. The story was originally published as "Shadow at the Door" in Redbook (May 1983).

Also, she has had "Myths of Adolescence" accepted for reprint in The Social Issues Resource Series, (Abbey Press, St. Meinrad, Ind.). The article was first published in Marriage and Family Living.

Languages

J. B. Romeiser (Assoc Prof) was elected trustee of the American Association of Teachers of French Endowment Fund at its annual convention in Lille, France, June 28.

Prof. Romeiser also edited a book, Red Flags, Black Flags: Critical Essays on the Literature of the Spanish Civil War, published this year by Studia Humanitatis.

P. W. Wannamaker (Assoc Prof) chaired a German National Teacher Examination Committee of the State Department of Education during a two-day teacher certification workshop in Columbia Aug. 18-19. The committee reviewed the items and standards for the newly developed criteria-referenced examination.

Library

F. M. Diaz (Ref Lib) has been elected secretary-treasurer of the Phi Kappa Phi Interdisciplinary Honor Society.

S. D. Johnson (Hd Acqus) presented a paper, "Serial Deselection in University Libraries: the Next Step," at a conference in Charleston May 12-13. The paper is to be published in Library Acquisitions: Practice and Theory 7/3 (1983).

M. F. Kohl (Hd Spc Col) presented a paper, "The Use of Tape Recorders by City Government: Current Practices and Recommendations," at the annual meeting of the International Institute of Municipal Clerks in Minneapolis, Minn., May 23. He has also been appointed to the editorial board of Provenance, the journal of the Society of Georgia Archivists.

E. M. Messman (Lib Tech Asst) published a paper, "Noises from a New

Animal," in South Carolina Librarian 27/1: 19 (Spring 1983).

R. W. Meyer (Assoc Dir) reviewed Automating Library Acquisitions: Issues and Outlook, by Richard Boss (White Plains, NY: Knowledge Industry Publications, 1982) in Library Acquisitions: Practice and Theory 7/2 (1983) 166-167.

K. R. Murr (Ref Lib) published "Online Literature Searching," in Water Pollution Control Federation Journal 66/5 (June 1983) 541-545.

Management

M. J. Stahl (Prof & Hd) and A. M. Harrell (Prof Univ SC) have had an article, "McClelland's Trichotomy of Needs Theory and the Satisfaction and Work Performance of CPA Firm Professionals," accepted for publication in Accounting, Organizations and Society.

Marketing

D. L. Sparks (Assoc Prof), R. M. Reese (Assoc Prof) and L. H. Stone (Asst Prof) published "Closed Account Analysis: A Suggested Methodology: in the Journal of Retail Banking, Vol. V, No. 1 (Spring 1983).

Mathematical Sciences

J. D. Fulton (Hd and Prof) has been appointed to a three-year term on the S.C. Mathematics Education Advisory Committee.

R. C. Laskar (Prof), W. R. Hare (Prof) and G. A. McClanahan (Former Grad Stu and Hd of Math Dept, Anderson

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College) published "Mendelsohn and Directed (k, t, λ^*)-Systems" in Congressus Numerantium Vol. 38 (June 1983).

J. A. Reneke (Assoc Prof) taught a shortcourse on "Signal Analysis" at the Naval Coastal Systems Center in Panama City, Fla., July 11.

Prof. Reneke also presented a talk, "A Strategy for Decentralizing Control of Stably Connected Systems," at the International Symposium on the Mathematical Theory of Network Systems in Beer Sheva, Israel June 20-24.

Mechanical Engineering

R. S. Figliola (Asst Prof) presented a paper, "Instantaneous Heat Transfer Coefficients in Air-Fluidized Beds," written with E. Suarez (Former Grad Stu) and D. R. Pitts (Univ of Tenn) at the ASME/AIChE 21st National Heat Transfer Conference in Seattle, Wash., July 24-27.

Plant Pest Regulatory Service

V. H. McCaskill (Pest Supv) chaired the pesticide section of the Southern Association of Feed, Fertilizer and Pesticide Control Officials meeting in New Orleans June 27-30 and was elected to the Board of Directors of the Association.

Dr. McCaskill also presented a talk, "Should Pesticide Misuse be a Criterion for Restricted Use," at the American Association of Pesticide Control Officials meeting in Atlanta, Ga., Aug. 1-4, and he was elected to the Association's Board of Directors.

University Union

W. Mandicott (Prog Dir) recently conducted two sessions, "Icebreakers and Student Interaction" and "Recruiting and Motivating Campus Leaders" at the joint USC Sumter-Spartanburg Leadership Development Workshop in Black Mountain, N.C.

He is treasurer of the NACA Southeast Region and registration coordinator for the Southeast Regional Conference, which will be held in Birmingham, Ala., Sept. 29-Oct. 2.

LOCAL AAUP CHAPTER WINS NATIONAL AWARD

The local chapter of the American Association of University Professors this summer received the national Beatrice G. Konheim Award, an honor reserved for chapters that distinguish themselves in advancing AAUP's commitment to academic and individual rights and freedoms.

The Clemson chapter was selected for the award because of "the strength of the Chapter's members in dealing with a number of controversial matters on campus," according to Lesley Lee Francis, AAUP's national associate secretary.

In particular, according to Francis, the selection committee was impressed with the chapter's position during the year on matters related to athletics.

John Fairey, an associate professor of botany and the chapter's 1982-83 president, accepted the \$500 award for the chapter during AAUP's annual meeting in Washington in June.

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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Sept. 23-30

WORKSHOPS, CONFERENCES AND SEMINARS

- 26 Short Course: "Beginning Clogging." Sponsored by University Union, 7-9 p.m., \$6. Sign up at Union Information Desk, or call 656-2461 for more information.
- 27-29 Workshop: "Microprocessors." Sponsored by Continuing Engineering Education. Call 656-3308 for more information.
- 27 Workshop: "Chemistry of Dyeing and Finishing." Sponsored by Professional Development. Call 656-2200 for more information.
- 27 Seminar: "Business and Payroll Taxes." Sponsored by Small Business Development Center, Sirrine Hall Auditorium, \$15. Call 656-3227 for more information.
- 27 & 29 Short Course: "Darkroom Skills." Sponsored by University Union, \$10. Sign up at Union Information Desk, or call 656-2461 for more information.
- 28 Short Course: "Sea (Lake) Kayaking." Sponsored by University Union, \$20. Sign up at Union Information Desk, or call 656-2461 for more information.

CAROLINA JOURNAL

(Carolina Journal is South Carolina Educational Television's public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Carolina Journal airs at 7:30 p.m. Call 656-2061 for more information.)

- 26 Gordon Gray, a professor of education, talks about funding for education.

The following events are scheduled for July 1976:

July 1-2: CU Summer Conference
 Location: CU Conference Center
 Topics: Current events, future plans, and a general meeting of the CU community.

July 5: CU Summer Picnic
 Location: CU Picnic Grounds
 Topics: A day of fun and relaxation for the CU community.

July 10: CU Summer Concert
 Location: CU Amphitheater
 Topics: A night of music and entertainment for the CU community.

July 15: CU Summer Lecture Series
 Location: CU Lecture Hall
 Topics: A series of lectures on various topics, including science, history, and literature.

July 20: CU Summer Open House
 Location: CU Open House
 Topics: A day of open house for the CU community, featuring various activities and exhibits.

July 25: CU Summer Festival
 Location: CU Festival Grounds
 Topics: A day of fun and entertainment for the CU community, featuring various activities and exhibits.

July 30: CU Summer Gala
 Location: CU Gala Hall
 Topics: A night of elegance and celebration for the CU community, featuring a formal dinner and entertainment.

CU EVENTS (Cont.)

LECTURES AND EXHIBITS

- 23 "Impact of Genetic Engineering in Biological Sciences," by Reuven M. Sacher, director of biological research, Monsanto Chemical Company, St. Louis, Mo. Sponsored by Alumni Association, Lyles Auditorium, Lee Hall, 3 p.m. Reception to follow at Ft. Hill lawn. Open to public. Free. Call 656-3451 for more information.
- 5-26 Walter Stevens Paintings. Abstract landscapes in acrylic and watercolor organized by University of Tennessee. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday, 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 27 Lecture: "1980's: Political and Economic Turning Point" by Maureen Reagan. Sponsored by Speaker's Bureau, Tillman Hall Auditorium, 7 p.m. Open to public.
- 28-30 Exhibit: Clemson Area Arts Council auction. Exhibition and auction of art works by Clemson area artists. Sponsored by Clemson Area Arts Council, College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

CONCERTS AND DRAMA

- 23 Concert: Hank Williams Jr. with guest stars. Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Tickets (\$10 and \$11) are on sale at the Union Box Office. Call 656-2461 for more information.
- 26 Clemson University Concert Series: Laura Fulton, coloratura soprano. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students present activity card, others present season ticket (\$20 adults, \$10 students) or ticket may be purchased at the door (\$6 adults, \$2 students).
- 24-Oct. 1 Play: Clemson Players production. Daniel Hall Auditorium, 8 p.m., 25th and 29th at 3:30 p.m. No performance 26th. Students free, faculty and staff \$1, others \$2. Open to public. Call 656-2476 for reservations and information.
- 28 Performing Artist Series: "The Glass Menagerie." Sponsored by University Union, Tillman Hall Auditorium, 8 p.m. Reception, Alumni Center, 10 p.m., sponsored by University Club. Individual tickets \$4; season tickets available. Call 656-2461 for more information.
- 29 "Maggie Ree Duo" jazz and blues. Sponsored by University Union, The Gutter, 8-11 p.m., \$1. Call 656-2461 for more information.

The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The second part of the report deals with the economic situation of the country. It is a very interesting and informative study of the country's economic development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The third part of the report deals with the social situation of the country. It is a very interesting and informative study of the country's social development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The fourth part of the report deals with the political situation of the country. It is a very interesting and informative study of the country's political development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The fifth part of the report deals with the cultural situation of the country. It is a very interesting and informative study of the country's cultural development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The sixth part of the report deals with the environmental situation of the country. It is a very interesting and informative study of the country's environmental development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The seventh part of the report deals with the international situation of the country. It is a very interesting and informative study of the country's international development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

The eighth part of the report deals with the future of the country. It is a very interesting and informative study of the country's future development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country.

CU EVENTS (Cont.)

FILMS

- 25 "20,000 Leagues Under the Sea." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 28 "Bedazzled." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.
- 29 "Best Friends." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 24 Football: Georgia Tech (Hall of Fame Day), here, 1 p.m.
- 25 Soccer: Duke, here, 2 p.m.
- 28 Soccer: Western Carolina, here, 8 p.m.

OTHERS

- 23 Thomas G. Clemson Induction Banquet. Sponsored by Alumni Association, Clemson House, 7 p.m. Call 656-3451 for more information.
- 23 Derby Day, a sorority game day organized to raise money for charity. Sponsored by Sigma Chi Fraternity, Riggs Field. Call 656-2153 for more information.
- 23 Pep rally for Georgia Tech game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.
- 24 Meeting: Clemson Alumni Physicians Society. Sponsored by Alumni Association. Call 656-2345 for more information.
- 25 Riverbank Zoo Trip. Sponsored by University Union, 9 a.m.-5 p.m., \$6.50. Sign up at Union Information Desk or call 656-2461 for more information.
- 27 Family Life Colloquium, a quarterly exchange for researchers studying family life topics. Sponsored by home economics department, Clemson House. Call 656-3090 for more information.
- 27 Sidewalk Chalk Art. Sponsored by University Union. Call 656-2461 for more information.
- 27 College Bowl Match. Senate Chambers, 7-9 p.m. Call 656-2461 for more information.

CU EVENTS (Cont.)

- 28 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 3:30 p.m. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.
- 28 Reception following "The Glass Menagerie." Sponsored by the University Club, Alumni Center, 10 p.m. Call 656-2345 for more information.
- 30 Faculty/Staff Reception. President and Mrs. Bill Atchley host reception at their home, 7:30-10 p.m.

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Newman



Edwards

ILSON NEWMAN AND BOB EDWARDS RECEIVE THE CLEMSON MEDALLION

A financier who became the youngest resident in the history of Dun and Bradstreet and a former Clemson president who emphasized the role of human values in education have received the University's highest public honor, the Clemson Medallion.

The Medallion was awarded Sept. 21 to James Wilson Newman, who left Clemson in 1931 to tackle the world of high finance, and to Robert Cook Edwards, who left the textile industry to become Clemson's longest-serving president.

President Bill L. Atchley presented the Medallion to the two men during a dinner at Fike Recreation Center presided over by Board of Trustees Chairman James H. Waddell.

Wilson Newman, whose father was a Clemson faculty member, was born and reared here. Graduating from Clemson in

1931, he bade farewell to small-town life and struck out for New York, where he moved up the corporate ladders at Dun and Bradstreet to become, at 43, the youngest president in the company's history.

His strong belief in credit as a dynamic instrument of the nation's economy is credited with helping Dun and Bradstreet develop into the financial-world giant it has become.

Newman also lent a helping hand to the Lockheed Aircraft Corporation during its financially troubled years of the mid '70s, when a committee he chaired was credited with "saving Lockheed."

Since 1973, when he established here the Charles Carter Newman Endowed Chair of Natural Resources Engineering in memory of his father, Newman has been a supporter of the Clemson University Foundation. A Foundation board member from 1974 until 1979, he became an honorary director in 1980.

Newman was honored for his "lasting influence upon Clemson University and his home state . . . through his words, his example and his generosity."

While Newman left academics to make his mark in the business world, Bob Edwards left the business world to "come home" to his alma mater.

Born in 1914, the son of a Fountain Inn farmer, Edwards received his degree in textile engineering here in 1933. After graduation, he began a steady climb through the ranks of management in the southern textile industry which culminated in his becoming treasurer and gen-

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eral manager of the Abbeville Group of what was then Deering-Milliken.

Leaving industry, Edwards began his career in academic administration in 1956, when the Board of Trustees chose him as vice president for development. Three years later he was named president of Clemson College.

Clemson changed significantly during the Edwards presidency. He presided over the school's 1963 "integration with dignity" and the building boom of the '60s and '70s.

And he was a strong advocate of limiting student enrollment in order to preserve the quality of student life.

Edwards was praised at the Medallion dinner for the wisdom of that decision: "Students at Clemson have always been individuals to Bob Edwards, not just numbers on a computer print-out."

The tribute included this quote from Edwards' address to his last graduating class here in 1979: "The production of knowledge is a function of the human mind, but the wise and creative use of knowledge relates more directly to the human heart."

Edwards' influence on South Carolina education was recognized in 1978, when the University's Board of Trustees established the Robert Cook Edwards Endowment for Excellence in Science and Technology.

Since his retirement, Edwards has returned to the textile industry, serving as chairman of the board of the Textile Hall Institute in Greenville.

BOARD PICKS AG SCIENCES, PSA FOR REVIEW;
ADDS EXTENSION TO SEARCH-SCREENING PANELS

The Board of Trustees Sept. 16 chose

the College of Agricultural Sciences and the University's non-regulatory public service agencies as the two academic units to be reviewed during the 1983-84 school year.

The action revives the Board's standing practice, dormant in recent years, of reviewing two colleges or other academic units each year.

Excluding the state regulatory agencies operated by Clemson -- meat inspection, seed certification, fertilizer inspection, and plant pest -- leaves the Cooperative Extension Service and the Agricultural Experiment Station as the focal points for the PSA review.

Ag Sciences and PSA were picked for review on the recommendation of the Board's Educational Policy Committee, which met Sept. 15.

During that committee's discussion of the review process, Trustees and administrators emphasized the importance of external as well as internal evaluation of programs.

The committee asked President Bill Atchley and Provost David Maxwell to develop an outline and timetable for the review and, in doing so, to consider including visits to other universities with strong agricultural and public service missions and visits here by qualified reviewers from outside Clemson.

Also on the recommendation of the Educational Policy Committee, the Trustees approved several Faculty Manual changes, including adding language to ensure that Extension personnel are represented in the selection of the University's president, provost, ag sciences dean, and Extension director.

The changes, requested by the Extension Senate, provide for that senate's president to be a member of the screening committee for University president.

At least one member of the search committee for provost must be from

Extension, and at least one county agent must be on the search committee for dean of ag sciences.

The Extension Senate will select a majority of the members of the search committee for Extension Service director.

Most of the other Faculty Manual changes adopted by the Board clarify and update the document.

The Board also agreed to the Educational Policy Committee's proposal that the University begin charging a Graduate School application fee equal to Clemson's undergraduate application fee (currently \$15) and an international visitors fee (\$200 per month).

International visitors (officially called "visiting international scholars") are foreign nationals who become associated with academic departments here in capacities other than as students or employees.

In other business

Also during its Sept. 16 meeting, the Board of Trustees:

-- unanimously adopted a memorial

expressing sympathy to the family of Capt. Frank Johnstone Jervey, who died May 6.

-- officially adopted the University's 1983-84 budget.

-- established a policy to provide for the University's internal audit division to report directly to the Board's Budget and Finance Committee by submitting all audit reports and findings directly to the chairman of that committee and simultaneously to the president of the University. For the purpose of administration, the division will work closely with the vice president for business and finance. (This reflects a recommendation from South Carolina's state auditor that an agency's internal auditors should report directly to a governing board or committee rather than to another employee of the agency.)

-- amended its bylaws to remove the 13-member limit on the Board of Visitors and to provide for up to three Visitors to serve two consecutive years. (This was agreed to in principle at the Trustees' July 22 meeting; the amendment makes it official.)

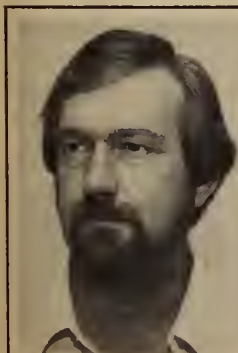
-- ratified mail-ballot approval of awarding to NoRam Co., the low bidder, a \$596,500 contract (with another \$167,000 to come from funds budgeted for "Maintenance, Repair, and Renovation") for modifications to the Central Energy Plant's pollution control system to comply with environmental protection regulations of the state Department of Health and Environmental Control.

-- granted to the City of Columbia an easement at the Sandhill Experiment Station so the city can make improvements to its water system in the area.

-- confirmed its standing committee memberships.

-- approved annual revisions to state plant pest quarantines.

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The Clemson University Newsletter is published for Jack Riley, security officer at the University Union, and for all the members of the University faculty and staff by the department of information and public services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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-- elected in executive session Greenville businessman Louis Batson as vice chairman of the Board.

UNIVERSITY RELATIONS REORGANIZES,
WILL HIRE AG COMMUNICATIONS DIRECTOR

To streamline internal operations and to improve Clemson's agricultural communications programs, the University Relations area is being reorganized, according to its executive director, Harry Durham.

The reorganization includes splitting the department of information and public services into three departments: agricultural communications, news services, and publications and graphics services.

University Relations also includes the department of electronic and photographic services (headquartered in the Communications Center).

Personnel changes involved in the reorganization include uniting in the new department of ag communications all University Relations staff members who provide news and publications services for the College of Agricultural Sciences and Clemson's public service agencies (the Extension Service, the Experiment Station, and the regulatory agencies.)

A director for that department will be hired "sometime around the first of the year," Durham said. He said the reorganization will not be completed until that position is filled.

"Placing all ag communications in one department is something we've felt was needed for a long time," Durham said. "However, because of all the PSA personnel and budget cuts, we tried to spread the responsibilities for that function among our various staffs, and I think to a large extent we did so successfully.

"But all along, we've all recognized the need for one specific individual to be responsible for that area. After all, at a land-grant university like Clemson, communicating ag and public service information has to be a major, high-priority function.

"Ag communications will still be a part of University Relations, although the new director of that department will, of course, work on a daily basis with Dean [of ag sciences Luther] Anderson and the directors of the public service agencies."

The ag communications staff will be located in the P&AS Building once the director's position is filled.

"I feel very good about all these changes," Durham said. "I think this new structure clearly identifies the major functional areas of University Relations and will allow us to serve Clemson in the best possible fashion.

"Our services have increased and matured over the years to the point where it simply makes sense to adjust our administrative setup to reflect our day-to-day operation.

"The news office and the publications and graphics staff provide services vital to Clemson's mission, and they reach Clemson's most diverse audiences with their news stories, periodicals and publications.

"We felt as departments they would be more accountable and responsible for the distinct kinds of services they provide."

The two other areas that were parts of information and public services -- visitor programs and special projects/marketing -- now report directly to Durham.

Since "information and public services" no longer exists, dialing its telephone number, 656-2061, now will get you a voice that says, "University Relations." That's where you should call to reach the department of news services.

To reach the department of publications and graphics services, which includes the University Newsletter staff, call the usual P&G number, 656-2467.

**TICKETS STILL AVAILABLE FOR
BOB HOPE SHOW ON OCT. 8**

If you haven't bought your ticket yet for the Oct. 8 Bob Hope Show, there's still hope for you, according to the University Union.

Upper-tier seats are still available for the 8 p.m. "Homecoming USA" show in Littlejohn Coliseum, but if you can't come up with the \$8 for a ticket, you may want to consider serving as an usher and get some free laughs.

Master of ceremonies for the show is the mighty mellow Aldo Chello, who will be serving up some high-spirited entertainment in the form of a ventriloquist, the 4:30 Thursday Singers, a "mystery guest," and some guy named Bob Hope.

Homecoming USA will be filmed as part of a Hope TV special that will air later in the year.

Tickets for the show are on sale at the Union Box Office.

Drop by the Union's loggia office or call 656-2461 to volunteer as an usher or to get more information.

**NEW SENIOR ACCOUNTANT NAMED
FOR GRANTS AND CONTRACT SERVICES**

Vice President for Business and Finance Melvin Barnette has announced a new senior accountant for the Office of Grants and Contract Services.

William C. Hallums, formerly an accountant in payroll and fringe benefits, has succeeded Greg Padgett, now

associate director of housing.

Hallums earned his bachelor's degree in business administration from Central Wesleyan College and served a stint in the army before coming to the University in 1980, when he joined financial management as an accounting technician in accounts payable.

As a senior accountant, Hallums will assist with the fiscal and administrative management of grants and contracts, coordinate and provide support service to faculty members engaged in research projects, and perform various indirect cost studies.

Thomas A. Sparacino succeeds Hallums in payroll and fringe benefits.

**"LIVING WELL" DOING WELL
IN STATEWIDE NEWS MEDIA**

"Living Well," the one-year-old weekly health column produced by the College of Nursing, is doing well. Quite well, in fact.

The faculty-bylined column is now used regularly by at least 16 newspapers across the state, is sent, on request, to several out-of-state papers, and is expanding to include a format for radio production, according to Margaret Pridgen, director of the department of news services.

Assistant nursing professor Becky Campbell, who coordinates "Living Well" for the college, says the column's purpose is "to provide to the public information on the concepts of wellness and the prevention of illness."

"There's a lot of misinformation out there," says Campbell, "and this is one way we see to help clear up some of it."

The idea for the column, she says,

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originated about two years ago with the college dean, Mary Lohr.

"When Dean Lohr came on board, she wanted us to get more involved in the community. We had discussed this idea informally with Margaret [Pridgen] in the past, so a committee from the college met, talked about ways of doing it and set a target date to begin."

On Aug. 10 of '82, the first column went out to state newspapers. Since then, faculty enthusiasm for writing the column has steadily gained momentum, and the popularity of "Living Well" with newspapers has become such that Pridgen describes the series as "one of the most successful new projects our office has ever attempted."

The success of the column, Campbell believes, can be attributed primarily to the "helpful" nature of the subjects selected by the nursing faculty to appeal to a broad audience.

Seasonal topics, such as the health benefits of swimming and the prevention of colds through proper handwashing, are mixed in with tips on exercise and with subjects of interest to the modern family, such as maintaining the family unit, myths intruding on marital happiness, and the problems of the single parent.

"I think the main reason people like the column," says Campbell, "is it tells them what they can do about a particular state of health to improve it, or it offers help with a particular problem."

Twenty faculty members, two graduate students and five undergraduates have written columns during this first year, an indicator, says Campbell, of the interest and enthusiasm in public health and wellness coming from the college.

"It's satisfying to know that we are helping to improve the health of the population," she says. "At the same time, I think the column is increasing the pub-

lic's awareness that we have a very viable active College of Nursing here."

Pridgen praises both Campbell and the college's media resource coordinator, Deborah Moore, in "taking an idea and running with it. They really make sure we get quality material in a form we can edit and distribute with little trouble.

"We think 'Living Well' is one of our outstanding public service activities," says Pridgen, "and we in news services are proud to be a part of it."

UNION'S SOLUTION TO THE NASTY BLAHS: TRY THE NUT HUT ON THE WAY TO THE GUTTER

Caution: the University Union has issued a warning to members of faculty and staff that going to the Gutter may be dangerous to the nasty blahs.

So, if you want to rid yourself of those blahs and have a bit of fun and relaxation in the meantime, says Union spokesman Paul Braese, make plans this year to visit the Gutter, where the doors are open to faculty, staff and students alike.

"We would really like to see more faculty-student interaction," says Braese, "and this is an ideal place for it. Besides the entertainment -- jazz, blues, soloists, poetry readings -- we offer all kinds of exotic coffees, teas and international foods they will enjoy."

But if you're the type who'd rather do the entertaining yourself, the Gutter is still a place for you, says Braese. "Local talent night" will be Nov. 3, and faculty and staff members, especially, are invited to help make up the entertainment agenda for that evening.

It's a simple route to the Gutter, says Braese. "You go to the basement of the YMCA Center, and you see this place, and if you don't think that's where it

is, that's where it is. That's the Gutter."

On your way to the Gutter, you may want to stop by the Nut Hut, the new snack shop opened this year at the Union Information Desk, and try out one of the 13 varieties of fruit-and-nut mixes.

"It's a nutritious alternative to junk foods," says Ruth Smith, the Hut's manager. "Besides fruit and nuts, we have orange football carobs, which are nice for the games, and we also have one-pound gift boxes that would make nice Christmas presents."

You can phone in your order (656-2461), says Smith, and have it delivered to you.

While you're placing your order for nutritious snacks, you may also want to ask about the Union Sign Shop, which offers custom graphics.

"These are professionally designed signs," says shop manager Allison Ashley. "You can get custom-made signs or flip charts for classroom lectures or for presentations at conferences and seminars. We can print up a sign to fit almost any need you have."

Depending on the number of signs you want and the design (you have a choice of seven type styles), the cost will range, usually, says Ashley, from \$2 to \$20.

To order your signs, she says, drop by the Sign Shop in Room 707 to select the size, typeface, ink and type of poster paper you want.

For information on these or any of the Union's services, call 656-2461.

CLEMSON CHORALE ALLOWS SINGERS
TO COME ALIVE THROUGH MUSIC

The best way to enjoy music is to "come alive" and sing it.

That's the idea that led Willard Cottrell, visiting music instructor, to form the Clemson Chorale Society, now in its second season.

The society, a 40-member choral group, is open to all faculty and staff members, and there's only one requirement: that you enjoy singing.

Cottrell, who spends most of every day singing, laments the fact that we have become too much the spectators and not enough the participators in our world.

"We just look and let the images go by," he says. "We don't actively experience anything. But in music, to really enjoy it, you need to actively experience it."

The Chorale, says Cottrell, is his attempt to "provide members of the college community and the outlying area an opportunity to actively experience music and to perform for enjoyment."

No auditions are required to join the group, he says, although persons should have had some experience with singing.

"Some people have a problem with the words 'professional' and 'amateur,'" he says. "They automatically think 'professional' means 'very good' and 'amateur' means 'very bad,' and they don't allow for a middle ground in there, but we need this middle ground where people can perform just for pleasure."

The makeup of the chorus "cuts across the college community," Cottrell says. "We have people from languages and math. And people in the engineering and technical fields, particularly, find it interesting because of the complexity of the music."

The society has planned two concerts for the fall season: a version of "Ruddigore" by Gilbert and Sullivan is set for October, and in November the group will perform Bach's "Magnificat,"

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Mozart's "Misericordias Domini" and songs by Elgar.

"You may think we're bringing in someone from New York to do this," says Cottrell, "but we're not. They're all local people."

Cottrell invites newcomers to the society. Rehearsals are held on Thursdays at 7:30 p.m. in Room 209 of Daniel Hall. For more information on the chorale, call 656-3453 or 3043.

COMMITTEE REMINDS FACULTY OF GRANT PROPOSAL DEADLINE

Applications for University Research Grant Committee grants must be in the Office of University Research (E-102 Martin Hall) not later than Nov. 1.

Application forms are available in the research office, and only proposals using committee forms will be considered.

The committee makes awards to new faculty members, to faculty members re-directing research interests, and to faculty members in areas where research support is inadequate or nonexistent.

If you have questions, call the research office at 656-2375.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff appear in the last Newsletter of each month.

Accountancy

A. S. Boyett (Assoc Prof), L. E.

Bryan (Asst Prof), and G. T. Friedlob (Assoc Prof) presented a two-day seminar for South Carolina CPA's on governmental accounting in Columbia May 24-25. The seminar was sponsored by the S.C. Association of Certified Public Accountants.

Profs. Bryan and Friedlob presented testimony, "Financial Management and Capital Formation in Small Business," before the Securities and Exchange Commission 1983 Small Business Forum in Boston, Mass., July 13.

Prof. Friedlob published "What Are the Effects of Differing Restrictions on Closely-Held Stocks" in the Journal of Taxation (April 1983) and "How Economic Statisticians View Accounting Profits" in the Journal of Accounting, Auditing and Finance (Winter 1983).

Administrative Programming

J. F. Cox (Prog Anlyst) and J. N. Hiser (Sys Anlyst) published "Department Information Support" in Cause/Effect (Sept 1983), a magazine for professionals engaged in the development, use and management of information systems in higher education.

Ag Chemical Services

B. T. Darning (Ag Sci Assoc III) and C. C. Mitchell Jr. (Lab Dir) presented "Using Microcomputers to Report Plant Analyses to Growers" at the American Society of Agronomy annual meeting in Washington, D.C., Aug. 14-19.

Agricultural Education

J. H. Daniels (Assoc Prof) attended a research and development demonstration at the British National Institute of

Agricultural Engineering in Silsoe, England, Aug. 5.

Agronomy and Soils

J. H. Palmer (Prof) gave an invited talk, "No-tillage Cropping Systems in South Carolina," at the Sixth Annual Southeastern No-till Soybean Conference in Milan, Tenn., July 20-21.

U. S. Jones (Prof Emer) has accepted the position of director of the Rural Development Institute, Cuttington University, in Suacoco, Monrovia, Liberia.

The following papers were presented at the National American Society of Agronomy meeting in Washington, D.C. Aug. 14-19:

-- "Nutrient Loading, pH and Calcium Carbonate Equivalent of Acid Precipitation" written by E. L. Suarez (Former Instr) and J. M. Griggs (Grad Asst) and given by Prof. Jones.

-- "Release of Basic Cations and Aluminum from Soils by Acid Precipitation" by W. C. Frantz (Grad Asst).

-- "Soil-geomorphic Applications to Pedologic Studies" by B. R. Smith (Assoc Prof).

-- "Microcomputer Program to Aid Soybean Growers and Others in Variety Selection" by J. H. Palmer (Prof) and C. F. Boyer (Ag Sci Assoc).

-- "An Educational Approach to Agonomic Problems" by B. U. Kittrell (Prof).

-- "A Cooperative Approach in Developing Product Information for Recommendations" by J. P. Zublena (Assoc Prof).

Architectural Studies

Civic Trust Award for his role in the design of Bass International Headquarters, Bass Brewery, in Buton-on-Trent, England. The award was sponsored by the Civic Trust of the United Kingdom. Prof. Craig was also a winner in the Evanston 2063 Architectural Design Competition in Evanston, Ill. The competition was sponsored by the Evanston Art Center.

M. A. Davis (Assoc Prof) presented a paper, "Analyzing Energy Patterns in Solar Greenhouse Residences," written with B. L. Nocks (Assoc Prof), at an international conference in Crete, Greece, June 27-July 5. The conference was sponsored by the London Architectural Association, the Technical Institute of Crete and the University of Miami.

Chemistry and Geology

D. D. DesMarteau (Prof & Hd) presented an invited lecture, "Carbon-Nitrogen Multiple Bonds as Reactive Intermediates in Fluorinated Compounds," at the 1983 Gordon Research Conference on Inorganic Chemistry, in Wolfeboro, N.H., Aug. 8-12.

Prof. DesMarteau presented an invited paper during the Symposium on Reactive Fluorinated Intermediates "Perhalogenated Oxaziridines" at the 186th ACS National Meeting in Washington, D.C., Aug. 28-Sept. 2. He also attended the meeting of the executive committee of the ACS Division of Fluorine Chemistry.

Prof. DesMarteau, Q.-C. Mir, Y. Y. Zheng and B. A. O'Brien presented a paper, "Cesium Fluoride Promoted Formation of N-Chloro and N-Bromoamines," at the Eight European Symposium on Fluorine Chemistry in Jerusalem, Israel, Aug. 21-26.

Prof. DesMarteau was a U.S.

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representative and discussion leader at the International Steering Committee which decides the host country for international meetings related to fluorine chemistry.

K. Dill (Asst Prof), R. L. Batstone-Cunningham (Vstg Instr), R. E. Hardy and M. E. Daman (Grad Stus) published a paper, "Possible Role of the Carbohydrate Residues in the Display of the MN Blood Group Determinants by Glycophorin A," in Biochimica et Biophysica Acta, 746 (1983) 1-7.

Prof. Dill has been invited to become a reviewer for Biochemistry, the journal of the American Chemical Society.

J. D. Petersen (Assoc Prof & Assoc Dean of Sci) chaired a session on "Inorganic Photochemistry, Electrochemistry and Kinetics" at the 186th National Meeting of the American Chemical Society in Washington, D.C., Aug. 28-Sept. 2.

Civil Engineering

S. C. Anand (Prof) presented a paper, "Finite Element Modelling of Contaminant Transport in Saturated Aquifers," written with A. Pandit (Asst Prof, Fla Inst of Tech & Former CE Grad Stu), at the Fourth International Conference on Mathematical Modelling at the Eidgenossische Technische Hochschule in Zurich, Switzerland, Aug. 15-17. At that conference he chaired a session, "Numerical Modelling."

Prof. Anand presented a seminar, "Finite Element Modelling of Groundwater Flow and Mass Transport in Saturated Aquifers," at the Institut fur Wasserbau at the University of Karlsruhe. He also visited the Institut fur Massivbau at the University of Darmstadt in West

Germany, where he discussed finite element modelling for concrete, and the Institut fur Bauwesen, Technische Hochschule in Zurich, where he discussed the limit state design of masonry.

The following papers were presented at the 3rd Canadian Masonry Symposium in Edmonton, Alberta, Canada, in June and were published in the Conference Proceedings:

-- "Cyclic and Monotonic Strength of Anchor Bolts in Concrete Masonry," by R. H. Brown (Prof & Hd) written with A. R. Whitlock (Former Ph.D Stu).

-- "Shear Strength of Slushed Composite Masonry Collar Joints," by T. E. Cousins (Former Grad Stu) written with Prof. Brown.

J. E. Clark (Prof) received a grant from the Governor's Highway Safety Office to conduct a one-year research project on "Traffic Accident Records Evaluation and Analysis."

Economics

N. K. Womer (Prof) was elected chairman of the Geographic Sections Committee of the Operations Research Society of America (ORSA) and co-chaired a symposium for the Society on "Operations Research in Cost Analysis."

Prof. Womer will publish the following papers in the ORSA monograph, Operations in Research Cost Analysis:

-- "Empirical Bayesian Reliability and Maintainability Analysis" written with Gary Fellers (Former Grad Stu & Asst Prof, Augusta College).

-- "Optimal Resource Allocation in Airplane Production: A Dynamic Programming Approach" written with Thomas Gullledge (Former Grad Stu and Asst Prof, LSU) and Murat Tarimcilar (Grad Stu LSU).

Elementary and Secondary Education

R. P. Green (Asst Prof), L. Becker (Univ of Miami) and R. Coviello (Walpole, Ma.) published a high school textbook, The American Tradition, A History of the United States, (Charles E. Merrill, Columbus, Ohio). Prof. Green is senior author of the book.

R. K. Peden (Prof) has been appointed to the Anderson and Oconee Alcohol Drug Abuse Commission for 1983-84.

J. H. Walker (Assoc Prof) has been invited to serve on the editorial board of the Anderson Independent and to contribute guest editorials on education.

Prof. Duffy reviewed American Rhetoric from Roosevelt to Reagan, ed. Halford Ross Ryan, for the Quarterly Journal of Speech, 69 (1983) 342-43, and he read "The Anti-Humanist Rhetoric of the New Religious Right" at the Southern Humanities Conference in Winston Salem, N.C., Feb. 4.

Prof. Duffy and S. Duffy (Asst Prof) published "Watchdogs of the American Theatre, 1910-1940" in the Journal of American Culture, 6, No. 1 (1983) 52-59.

G. W. Koon (Assoc Prof & Actng Hd) published a book, Hank Williams: A Bio-Bibliography (Greenwood Press) in August. His articles appeared in Ozark magazine (June and July), and he is the editor of a volume of essays on the humanities for the S.C. Committee for the Humanities.

Engineering Technology

L. O. Drew (Vstg Prof) was named a 1983 Paper Award winner by the American Society of Agricultural Engineers (ASAE) at its annual banquet in Bozeman, Mont., June 29. His paper, "Stresses Generated in Soil Crust by Emerging Dicots" (written with M. R. Goyal, G. L. Nelson, T. G. Carpenter and A. W. Leissa) was published in Transactions of the ASAE.

M. H. Moran (Vstg Asst Prof) published "Vocabulary Without Drill: Recent Trends in Pedagogy" in Arizona English Bulletin, 25 (May 1983).

R. B. Rollin (Lemon Prof) is the editor of a symposium, "Understanding Popular Culture," in Studies in Popular Culture 6 (1983) 1-46, and he is co-author of one of the symposium's essays, "Opportunities for Research and Publication in Popular Culture," 35-46.

M. O. Usrey (Assoc Prof) published "America's Gift to British Children: The Tall Tales of Joan Aiken" in Children and Their Literature, A Readings Book, ed by Jill P. May (Children's Literature Assoc., 1983) 58-64.

English

B. K. Duffy (Asst Prof) published the following articles:

-- "The Platonic Functions of Epideictic Rhetoric" in Philosophy and Rhetoric, 16 (1983) 79-93.

-- "James F. Byrnes' Yalta Rhetoric" in Journal of Political Science, 10 (1983) 61-69.

-- "The Ethics of Argumentation in Intercollegiate Debate: A Conservative Appraisal" in The National Forensic Journal, 1 (1983) 65-71.

E. P. Willey (Assoc Prof) published two poems: "Windbane" in Poetry Now, 7 (1983) 46; and "The Homemaker's Reply" in Crawlspage, 6 (1983) 5.

Entomology, Fisheries & Wildlife

A. G. Eversole (Assoc Prof) and

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W. D. Anderson (Fishery Biol, SC Wldlf & Mar Res Dept) have received two research contracts: \$32,000 from NMFS to assess the whelk fishery in South Carolina and \$17,000 from Gulf and S. Atlantic Fish. Development Foundation to investigate the feasibility of harvesting arks (shellfish) in the S. Atlantic Bight.

Environmental Systems Engineering

The following papers were presented at the 38th Annual Purdue Industrial Waste Conference in West Lafayette, Ind., May 11-12:

-- "Removal of Metal Ions from Wastewater by Algae" by F. J. Sloan (Grad Asst) written with A. R. Abernathy (Prof), J. C. Jennett (Dean & Prof) and C. V. Goodman (Former Grad Stu).

-- "Wastewater Treatment by Overland Flow" by A. R. Abernathy (Prof).

Prof. Abernathy had a literature review "Land Application of Wastewaters" published in the Journal of the Water Pollution Control Federation, 55, No. 6 (June 1983) 675-76.

T. J. Overcamp (Assoc Prof) published "A Surface-Corrected Gaussian Model for Elevated Sources" in the Journal of Climate and Applied Meteorology, 22, No. 6 (June 1983) 1111-1115.

Extension Home Economics

The following talks were given at the 1983 Governor's Consultation on Rural Needs in Columbia Aug. 11-13:

-- "Health Care: Rural Wellness," by J. R. McRee (Assoc Prof).

-- "Changing Lifestyles and Their

Impact on Consumers" by J. H. Jenkins (Assoc Prof).

Finance

E. J. Ferreira (Asst Prof) had an article, "Risk and Return Characteristics of Convertible Preferred Stocks" accepted for publication by the Journal of Portfolio Management.

Prof. Ferreira presented two papers, "Factors Affecting Systematic Risk of Convertible Preferred Stock" and "The Effect of Single and Multiple Cut-Off Rates on Company Systematic Risk," written with D. C. Wiggins (Assoc Prof) at the Eastern Finance Association Meeting April 20-23.

Food Science

The following papers were presented at the 43rd annual meeting of the Institute of Food Technologists in New Orleans, La., in June:

-- "Mechanisms and Reaction Order of Gel Formation by Proteins of Muscle Tissue" by G. R. Ziegler (Former Grad Asst) and J. C. Acton (Prof).

-- "Amino Acid Enhancement and Bitterness Aspects of Rehydratable Foods Thermally Processed with Casein Hydrolysates" by A. D. Tiwari (Former Grad Asst) and Prof. Acton.

-- "Effect of Fermentation Temperature on the Natural Microflora of Fermented Sausage" by P. L. Price (Grad Stu), L. S. Donnelly (Former Asst Prof) and Prof. Acton.

-- "Microbiological Analysis of Sodium Benzoate-Citric Acid Preserved Hard-Cooked Eggs" by Prof. Donnelly and L. H. McCaskill (Res Spec).

Prof. Acton and C. M. Gagne (Former

Grad Asst) published "Fiber Constituents and Fibrous Food Residue Effects on the In vitro Enzymatic Digestion of Protein" in Journal of Food Science, Vol. 48 (1983) 734-738.

Prof. Acton, G. R. Ziegler and D. L. Burge (Former Grad Assts) published "Functionality of Muscle Constituents in the Processing of Comminuted Meat Products" in CRC Critical Reviews in Food Science and Nutrition, Vol. 18 (1983) 99-121.

Prof. Acton, W. P. Williams (Prof & Hd), S. Schnell (Former Grad Asst), F. B. Wardlaw (Res Spec) and R. L. Dick (Res Spec) published "Protein Quality Evaluation of Drum Dried and Dried-Extruded Peanut Products" in Food Science and Technology (Swiss), Vol. 16 (1983) 5-7.

D. M. Henricks (Prof) and J. D. Rone (Grad Asst) presented a poster session, "Effect of Energy Intake on Hormone Secretion in the Suckled Beef Cow," at the annual meeting of the Society for Study of Reproduction in Cleveland, Ohio, Aug. 7-10.

C. V. Morr (Prof) and J. A. Nichols (Grad Asst) presented a paper, "Chemical and Functional Properties of Ion Exchange Whey Protein Isolates," at a meeting of American Dairy Science in Madison, Wis., June 26-29.

Forestry

G. R. Askew (Asst Prof) and R. E. Schoenike (Prof) published "Identification of Characteristic Traits of Two Varieties of Arizona Cypress" in Silvae Genetica 31:158-160.

D. B. Carmichael (Grad Asst) and D. C. Guynn (Assoc Prof) published "Snag Density and Utilization by Wildlife in the Upper Piedmont of South Carolina" in Proceedings of the Symposium on Snag Habitat Management, U.S. Forest Service, 107-110.

E. R. Holsten (Res For) and L. D. Reamer (Assoc Prof) published "Loblolly Pine on the Upper Piedmont" in Forest Farmer, 42(8):16-17.

D. R. Hook (Prof), D. S. DeBell (Vstg Prof), J. L. Askew (For I), and W. H. McKee (U.S. For Serv, Charleston) published "Responses of Loblolly Pine (Mesophyte) and Swamp Tupelo (Hydrophyte) Seedlings to Soil Flooding and Phosphorus" in Plant and Soil, 71:387-394.

The following have received research funding from the U.S. Forest Service, Southeastern Forest Experiment Station:

R. A. Harris (Asst Prof) -- \$6,600 for an investigation on the "Weight Density of Wood Fuel" and \$15,893 for a study on "Moisture Content Variation in Stacks of Lumber Dried in a Radio Frequency/Vacuum System."

A. P. C. Marsinko (Asst Prof) -- \$10,000 for the project "A Microcomputer-based Decision Makers' Aid for Managers of Southern Woodlands."

J. H. Stevens (For III) -- \$2,500 for a study, "The Availability of South Carolina Private Lands for Outdoor Recreation."

R. Zahner (Prof) -- \$4,400 for a study of "Growth and Development of Sprout Origin versus Seedling Origin Yellow-Poplar Trees."

Prof. Zahner received \$70,000 from the U.S. Forest Service to conduct two, three-week continuing education workshops for Forest Service personnel: "Biological and Earth Sciences" and "Silvics and Silviculture."

History

L. J. Greenspoon (Assoc Prof) has

Continued on page 14.

Continued from page 13.

published the following:

-- Textual Studies in the Book of Joshua in the Harvard Semitic Monographs series;

-- "The Warrior God, or God, the Divine Warrior," a chapter in Religion and Politics in the Modern World, eds Merkl and Smart, New York University Press.

-- "The Greek Text of Judges. Recensional Developments," a review in the Journal of Biblical Literature 102 (1983), 133f.

W. A. Maker (Asst Prof) presented an invited paper, "On Critical Thinking and Human Emancipation," at the First International Conference on Critical Thinking, Education and the Rational Person at Sonoma State University Aug. 15-19.

Prof. Maker reviewed Hegel and the French Revolution by Joachim Ritter in The Owl of Minerva, Vol. 14, No. 4 (June 1983) and is book review editor for the Owl, the official journal of the Hegel Society of America.

History and Visual Studies

S. M. Wang (Prof) was a winner in the Black and White Category of the 1983 Unicolor Artists' Support Program Award. His entry will be shown throughout the county from fall, 1984, through spring, 1985, and he will receive a \$1,000 material grant to produce new photographic work.

Horticulture

J. R. Haun (Prof) and D. C. Coston

(Assoc Prof) published "Relationship of Daily Growth and Development of Peach Leaves and Fruit to Environmental Factors" in Journal of the American Society for Horticultural Science, 198 (July 1983) 666-671.

Industrial Engineering

J. A. Chisman (Prof & Actg Hd) published "Why Do We Have to Take Socio-Humanistic Courses" in Journal of Tau Alpha Pi.

Languages

R. R. McGregor (Prof) published "Camus' Absurd Man: A Metamorphosis of Milton's Satan" in Francofonia, Bologna, Italy, (Spring 1983).

Livestock-Poultry Health

D. E. Goodman presented a paper, "Mycotoxin Problems in Swine," at the Swine Health Day Seminar at Murray State University in Hopkinsville, Ky., Aug. 30.

Management

W. H. Hendrix presented a paper, "Predicting Job Stress and Potential for Developing Coronary Artery Disease," at the 1983 National American Psychological Association Convention in Anaheim, Calif., Aug. 28. He also chaired the ad hoc committee on organizational behavior during the convention's Division 19 business meeting.

T. Leap (Assoc Prof) and T. A. Oliva

(Grad Stu, Columbia Univ) published "General Systems Precursor Theory as a Supplement to Wren's Framework for Studying Management History: The Case of Human Resource/Personnel Management" in Human Relations, Vol. 36, No. 7 (July 1983) 627-640.

M. J. Stahl (Prof & Hd) and A. M. Harrell (Univ of SC) have had an article, "Modeling Managers' Effort-Level Decisions for a Within-Persons Examination of Expectancy Theory in a Budget Setting," accepted for publication in Decision Sciences.

They also published an article, "Using Decision Modeling to Measure Second Level Valances in Expectancy Theory," in Organizational Behavior and Human Performance, (August 1983) 23-24.

Marketing

G. L. Waddle (Assoc Prof & Hd) published "Exporting: An Optimistic View" in Bobbin (June 1983).

Mathematical Sciences

R. Bose (Asst Prof) gave two lectures on "Quantitative Methods in Management Science" at the Management Development Institute in New Delhi, India, July 26-27.

J. B. Gray (Asst Prof, Texas Chrst Univ) was the Clemson University nominee in the National Council of Graduate School's Dissertation Award Competition for his dissertation, "The Detection and Assessment of Influence in Regression Analysis." Prof. Gray was a May Ph.D. graduate under R. F. Ling (Prof).

R. E. Jamison (Prof) has published a review of Geometry and Convexity: A

Study in Mathematical Methods by P. J. Kelly and M. L. Weiss in Siam Review, Vol. 25, No. 2 (April 1983).

J. P. Jarvis (Assoc Prof) gave a talk, "NETPAC: An Interactive Software Package for Network Optimization," at the SIAM Meeting on Discrete Mathematics in Cambridge, Mass., June 27-29.

R. C. Laskar (Prof) and D. R. Shier (Prof) published "On Powers and Centers of Chordal Graphs" in Discrete Applied Mathematics 6 (1983) 139-147.

D. R. Shier (Prof), J. Filliben and K. Kafadar (Nat Bur of Std, Wash, DC) published "Testing for Homogeneity of Two-dimensional Surfaces" in Mathematical Modelling, Vol 4 (1983) 167-189.

Mechanical Engineering

J. G. Goree (Prof) presented an invited lecture, "Fracture and Crack Growth," as part of a short course on metal matrix composites at UCLA Aug. 2. The course was co-sponsored by the U.S. Department of Defense and the Metal Matrix Composites Information Analysis Center.

Parks, Recreation and Tourism Management

B. J. Mihalik (Asst Prof) has had three articles accepted for publication:

-- "Practitioner Identified Technical Assistant Needs for Community Leisure Service Agencies" and "Administrative Guidelines for the Development of Corporate-Sponsored Synergetic Recreation Programs" by the Journal of Park and Recreation Administration ;

-- "Theory Z: Does it Have a Place in Grounds Maintenance?" by Park Maintenance Magazine.

Planning Studies

G. E. Varenhorst (Prof) presented a paper, "Innovative Measures in Local Planning," and was program chairman for a seminar, "A Primer for Planning Commissions," sponsored by the Appalachian Council of Governments and the planning studies department.

Plant Pest Regulatory Service

H. B. Jackson (Hd) chaired, for the second year, the National Plant Board meeting in Honolulu, Hawaii, Aug. 15-18. The board meets annually to study pest problems of U.S. and foreign agriculture.

Political Science

M. A. Morris (Assoc Prof) and V. Millan (Int Peace Res Inst, Stockholm, Sweden) co-edited a book Controlling Latin American Conflicts: Ten Approaches (Westview Press, Boulder, Col.). Prof. Morris and M. W. Slann (Prof) wrote "Proliferation of Weaponry and Technology," and Prof. Morris wrote one and co-authored two other articles in the book.

Poultry Science

The following papers were presented at the 72nd annual meeting of the Poultry Science Association at the University of Maryland in Baltimore Aug. 8-12:

-- "Preparing Effective Data Slides for Oral Presentations" written by J. W. Dick (Prof), G. P. Birrenkott Jr. (Assoc Prof) and M. E. Wiggins (Res Spec II) and given by Prof. Dick.

-- "Binding of Dihydrotestosterone by Protein in Turkey Seminal Plasma" written by Prof. Birrenkott, R. A. Hess (Grad Asst) and R. J. Thurston (Assoc Prof) and given by Hess.

-- "Temporal Activity Within the Avian Hypothalamo-Hypophyseal-Adrenal System" written by Prof. Birrenkott and K. D. Smoak (Grad Res Asst) and given by Smoak.

-- "Thyroid Hormones' Effect on Serum Corticosterone" written by Prof. Birrenkott and given by Smoak.

-- "Effect of Lipectomy on Control of Feed Intake and Homeostasis of Adipose Tissue in Chickens" written by D. V. Maurice (Assoc Prof), J. E. Whisenhunt (Ag Sci Assoc I), J. E. Jones (Prof) and Smoak and given by Whisenhunt.

-- "Chemical Composition and Nutritional Value of Brazilian elodea (Egeria densa) for the Chick" written by Profs Maurice and Jones, J. W. Weber (Ag Sci Assoc II) and D. J. Castaldo (Grad Asst) and given by Castaldo.

-- "Does Dietary Level of Calcium Influence Shell Mammary Core Number, Feed Intake and Lipid Deposition in Layers?" written by Prof. Maurice, Whisenhunt and C. S. Winstead (Grad Asst) and given by Winstead, who received a Certificate of Excellence for her presentation.

-- "Vitamin B₁₂ Status of Hens Fed Propionic Acid" written by Profs Maurice and Jones and N. W. Ward (Grad Asst) and given by Ward.

-- "Lysine and TSAA Requirements During Early Growing Periods for Bobwhite Quail" written by Prof. Jones, B. L. Hughes (Prof), L. W. Grimes (Assoc Prof, Exp Sta), Castaldo and C. R. Ruff (Grad Asst) and given by Ruff.

B. D. Barnett (Prof & Hd) was elected secretary-treasurer of the Poultry Science Association for a three-year term.

SEP 30 1983

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Office of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Sept. 30 - Oct. 7

WORKSHOPS

- 5 Short Course: "Wine Tasting." Sponsored by University Union, Palmetto Room, 7-10 p.m., \$5. Sign up at Union Information Desk, or call 656-2461 for more information.
- 5 Short Course: "Hammock Making." Sponsored by University Union, Arts and Crafts Room, 5-8 p.m., \$35. Sign up at Union Information Desk, or call 656-2461 for more information.
- 6 Short Course: "Party Foods." Sponsored by University Union, YMCA, 7-9 p.m., \$12. Sign up at Union Information Desk, or call 656-2461 for more information.

LECTURES AND EXHIBITS

- 4 Admiral Hyman Rickover public address. Sponsored by Strom Thurmond Institute of Government and Public Affairs, Tillman Hall Auditorium, 3:30 p.m., reception following at Alumni Center. Call 656-4700 for more information.
- 5 English Hour lecture -- "Living and Teaching in the Soviet Union" by Mark Steadman, a professor of English. Sponsored by English department, Strode Tower Lounge, 8 p.m. Free. Open to public. Call 656-3151 for more information.
- 7-17 Architecture Alumni Show. An exhibition celebrating the 25th anniversary of the College of Architecture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

DRAMA

- 29-Oct. 1 "Picnic," a Clemson Players production. Daniel Hall Auditorium, 8 p.m., matinee Sept. 29 at 3:30 p.m. Students free, faculty and staff \$1, others \$2. Open to public. Call 656-2476 for reservations and information.

CU EVENTS (Cont.)

- 2-3 Auditions: Clemson Players production. Daniel Hall Annex, 7:30 p.m. Open to public. Call 656-2476 for more information.

FILMS

- 2 "Poseidon Adventure." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 3 "All Quiet on the Western Front." Sponsored by University Union, Y-Theater, 8 p.m. Admission \$1 with University I.D. Call 656-2461 for more information.
- 5 "La Strada." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.

OTHER EVENTS

- 30 Faculty/Staff Reception. President and Mrs. Bill Atchley host reception at their home, 7:30-10 p.m.
- 1 Medical College Admission Test. Sponsored by Counseling and Career Planning Center, Martin Hall, 8 a.m.-6 p.m.
- 4 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 2 p.m. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.
- 4-27 Tennis classes. Sponsored by YMCA, YMCA Center, \$15 for YMCA members, \$22 for others. Call 656-2460 for more information.
- 4 Miss Homecoming Pageant. Sponsored by Student Government, Tillman Hall Auditorium, 8 p.m. Open to public. Call 656-2195 for more information.
- 5 Soccer. Erskine, here, 8 p.m.
- 6 Clemson Chamber of Commerce Annual Fall Banquet with syndicated columnist Lewis Grizzard. Holiday Inn, 7:30 p.m., tickets, \$15. Open to public. Call 654-1200 for more information.*
- 7 Tigerama. Pep rally followed by six skits by student organizations, the crowning of Miss Homecoming and a fireworks display. Sponsored by Blue Key and WSBF, Frank Howard Field, 7 p.m. Admission \$1. Call 656-2153 for more information.

*Included as a service to the faculty and staff, though sponsor is not a Clemson University organization.



OCT 5 1983

ROCK GARDEN DEDICATED IN MEMORY OF ALUMNUS

A living memorial to a Clemson alumnus and local educator is under construction in the University's Horticultural Gardens.

Jack Rouse Miller, a 1950 graduate who served the public school system for 24 years, is being memorialized in a dwarf conifer rock garden next to the Hayden lecture area in the gardens.

The memorial, donated by friends of the Miller family, will feature more than 100 varieties of dwarf pine, juniper,

spruce and fir that will serve both as a garden for public enjoyment and as a teaching collection.

David Bradshaw, director of the gardens, says donations of plants, supplies and money are still being accepted.

"The memorial," says Bradshaw, "will never really be completed. It will still be growing, it will still be changing, and it will still be an inspiration to the gardens' visitors a hundred years from now."

Miller served as principal of Morrison Elementary School in Clemson from 1971 until his death in 1978.



GARDEN DEDICATED --
David Bradshaw, director of the Horticultural Gardens, places the first dwarf conifer in the Jack Miller Memorial Garden as Peggy Miller and other family members and friends look on during dedication services earlier this semester. Miller, a 1950 alumnus, served the public school system for 24 years.

BIOCHEMIST AWARDED FULBRIGHT FOR STUDY IN WEST GERMANY

Gary L. Powell, a professor of biochemistry, has been awarded a Fulbright grant for the 1983-84 academic year to conduct collaborative research at the Max-Planck-Institut Fur Biophysikalische Chemie in West Germany.

Powell, who came here in 1973, earned his bachelor's degree in chemistry from UCLA and his doctorate in biochemistry at Purdue.

While at Purdue, he earned the title "Teaching Associate," a special designation for two outstanding graduate teaching assistants selected by the students and supervisors in freshman chemistry.

He was an NIH Postdoctoral Fellow at the Washington University School of Medicine and he has received several other honors during his professional academic career, including scholarships from the Alhambra Exchange Club and the Texaco Oil Company.

Fulbright recipients are selected on the basis of academic and professional qualifications and the ability and willingness to share ideas and experiences with people of diverse cultures.

During his one-year stay in West Germany, Powell will research "Interaction of Cardiolipin with Membrane Proteins."

M.E. DEPARTMENT FORMS STUDY EXCHANGE FOR RESEARCHERS IN FLUID MECHANICS

To promote interaction among researchers in fluid mechanics, faculty members in the mechanical engineering department have begun a series of monthly research exchange seminars scheduled throughout the fall and spring semesters.

According to Tah-teh Yang, a professor of mechanical engineering, the semi-

nars are a cooperative venture among faculty members in engineering and sciences to encourage the sharing of ideas and research information.

"Often we are sitting in our offices doing research, and we are not aware of all the related activities going on in the next building," says Yang. "To what degree we overlap, we don't know. These seminars will provide an opportunity for those people with a special expertise in some area of fluid mechanics to derive strengths from one another."

Because of the large number of disciplines that require the study of some aspect of fluid mechanics (math, physics, textiles, sciences and engineering, for example), Yang believes the seminars will serve a number of people who may be conducting closely related research.

The format of the seminars will remain flexible, he says, to allow participants to highlight their research interests in informal presentations.

If you'd like to join the research exchange group or if you'd like to give a presentation, call Yang at 656-3470.

The next seminar is scheduled for Oct. 12, 3:30-4:30 p.m., in Room 300 of Riggs Hall. The weekly calendar of events will keep you posted on the remaining seminars.

STUDENT LIFE ANNOUNCES NEW ASSISTANT DEAN

The Office of Student Life now has two assistant deans to coordinate student activities and organizations.

Alexander "Mickey" Lewis joined Teresa Paschal this fall as an assistant dean, according to Dean Joy Smith, who said the new position was created "because the job of handling all campus organizations had become too much for our present staff."



Lewis

Lewis works with the Minority Council, the sports clubs and the spirit-related groups, while Paschal continues to work with professional organizations, social sororities, freshman orientation and Homecoming activities.

Lewis says the clubs "do a pretty good job of running themselves."

"However," he says, "I would like to create a better communications flow between the organizations themselves and between the organizations and the University."

A native of Orangeburg, Lewis comes here from Denmark Technical College, where he was director of counseling. He

earned his bachelor's degree in history and economics and his master's degree in education at South Carolina State.

STRESS RESEARCH CLINIC OPENS ITS DOORS TO MEMBERS OF THE FACULTY AND STAFF

Coping with stress -- it's not as hard as you might think, says Laurretta Park, an associate professor of psychology and a member of the research team directing the newly organized stress research clinic.

The clinic, located in the College of Nursing building, is opening its doors to faculty and staff members who may feel the need to acquire new techniques for coping with day-to-day anxieties.

"You won't learn how to avoid stress," says Park. "No one can avoid it. What we try to do is motivate people to cope with it and take responsibility for dealing with it."

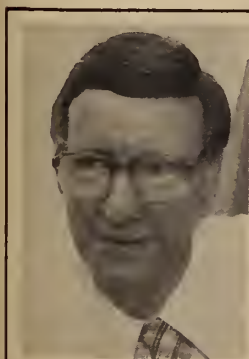
The psychologists use three primary techniques: bio-feedback, cognitive exercises (such as imagery and visualization) and progressive, or "deep muscle," relaxation.

The research clinic is sponsored by the College of Liberal Arts and the Counseling and Career Planning Center.

"Nursing has been so nice to provide the space for us," says Park, "and Dean [of liberal arts Robert] Waller has been behind us all the way. We would have gotten nowhere without his support in this."

To help with expenses, a one-time \$20 fee is charged for an unlimited number of visits, says Park. In addition, you must be willing to participate in the research by filling out a few forms, which, she says, may be done at home.

Clinic hours are 1-3 p.m., Monday, Tuesday and Thursday. For an appointment, call 656-3210.



The Clemson University Newsletter is published for Coy Howard, senior accountant in Financial Management, and for all the members of the University faculty and staff by the Office of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

COMMITTEE REMINDS FACULTY
OF GRANT PROPOSAL DEADLINE

Applications for University Research Grant Committee grants must be in the Office of University Research (E-102 Martin Hall) not later than Nov. 1.

Application forms are available in the research office, and only proposals

using committee forms will be considered.

The committee makes awards to new faculty members, to faculty members re-directing research interests, and to faculty members in areas where research support is inadequate or nonexistent.

If you have questions, call the research office at 656-2375.

OCT 5 1983

CU EVENTS

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Oct. 7-14

WORKSHOPS, SEMINARS AND CONFERENCES

- 10-11 Workshop: "Staff Development Certificate Course IV - Organizational Management." Sponsored by Nursing Continuing Education, College of Nursing. Preregistration required. Call 656-3078 for more information.
- 11 Short Course: "Self Defense" (Tae Kwon Do). Sponsored by University Union, YMCA, 7-8:30 p.m. Call 656-2461 for more information.
- 11 Short Course: "Alcohol Awareness." Sponsored by University Union, 7-8:30 p.m. Call 656-2461 for more information.
- 13 Workshop: "An Overview of Complex Three Dimensional Separated Flows." Sponsored by mechanical engineering department, 300 Riggs Hall, 2-3 p.m. Call 656-3371 for more information.
- 13 Workshop: "South Carolina Housing Officers Association One-Day Drive-In Workshop." Co-sponsored by Anderson College and Clemson University, Senate Chambers, University Union, 8:30-3:30 p.m. Call 656-2295 for more information.
- 14-15 Symposium: Quarter Century Symposium celebrating the 25th anniversary of the College of Architecture. Sponsored by Clemson Architectural Foundation and College of Architecture. Call 656-3081 for more information.

CAROLINA JOURNAL

Carolina Journal is South Carolina Educational Television's public forum on current topics in the news. Once each week University Relations coordinates a segment of the show from Clemson through a video link with the TV studio in the Communications Center. Carolina Journal airs at 7:30 p.m. Call 656-2061 for more information.

- 10 Corinne Sawyer, a professor of English, talks about American humor.

STEVENS UP

The following is a list of the names of the persons who have been elected to the various offices of the Stevens Chapter of the American Legion, District No. 1, for the year 1924-1925. The names are given in the order in which they were elected, and are followed by the offices to which they have been elected.

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CU EVENTS (Cont.)

LECTURES

- 12 "Plume Rise from Two Adjacent Stacks" by T. J. Overcamp, an associate professor of environmental systems engineering. Sponsored by mechanical engineering department, Room 300 Riggs Hall, 3:30-4:30 p.m. Call 656-3470 for more information.
- 13 "Geologic Research in the Antarctic" by Dr. Richard L. Cameron, assistant director of polar programs, National Science Foundation. Sponsored by geology department, Room 235, Brackett Hall, 4:30 p.m. Call 656-3438 for more information.
- 14 "The Future of Architectural Education" by Harlan E. McClure, dean, College of Architecture. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 9:30 a.m. Call 656-3081 for more information.
- 14 "The Future of Architecture" by Harold Fleming, the Potomac Institute, Washington, D.C. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 10 a.m. Call 656-3081 for more information.
- 14 "The Future of Computer Graphics in the Practice of Architecture" by Doug Stoker, associate partner, Skidmore, Owings & Merrill. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 2 p.m. Call 656-3081 for more information.
- 15 "The Future of International Practice and Its Cultural Dilemmas" by Ricardo Legorreta, architect, Mexico City, Mex. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 1:30 p.m. Call 656-3081 for more information.
- 15 "The Future Role of the A.I.A. in Architectural Practice" by George Notter, president, American Institute of Architects. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 3 p.m. Call 656-3081 for more information.

FILMS

- 9 "To Catch a Thief." Sponsored by University Union, Y-Theater, 8 p.m. Free with Univ. I.D. Call 656-2461 for more information.
- 12 "Das Boot." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.
- 12 "F M." Sponsored by University Union, Edgar's, 7 and 9:15 p.m. Call 656-2461 for more information.
- 13 "Man From Snowy River." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with Univ. I.D. Call 656-2461 for more information.

1. The first part of the report deals with the general situation of the country and the progress of the work during the year. It is divided into two main sections: the first section deals with the general situation and the second section deals with the progress of the work.

2. The second part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work in the field and the second section deals with the results of the work in the laboratory.

3. The third part of the report deals with the conclusions of the work during the year. It is divided into two main sections: the first section deals with the conclusions of the work in the field and the second section deals with the conclusions of the work in the laboratory.

4. The fourth part of the report deals with the recommendations of the work during the year. It is divided into two main sections: the first section deals with the recommendations of the work in the field and the second section deals with the recommendations of the work in the laboratory.

5. The fifth part of the report deals with the summary of the work during the year. It is divided into two main sections: the first section deals with the summary of the work in the field and the second section deals with the summary of the work in the laboratory.

6. The sixth part of the report deals with the bibliography of the work during the year. It is divided into two main sections: the first section deals with the bibliography of the work in the field and the second section deals with the bibliography of the work in the laboratory.

7. The seventh part of the report deals with the appendix of the work during the year. It is divided into two main sections: the first section deals with the appendix of the work in the field and the second section deals with the appendix of the work in the laboratory.

8. The eighth part of the report deals with the index of the work during the year. It is divided into two main sections: the first section deals with the index of the work in the field and the second section deals with the index of the work in the laboratory.

CU EVENTS (Cont.)

SPORTS

- 8 Football: Virginia (Homecoming), here, 1 p.m.
- 9 Soccer: South Carolina, here, 2 p.m.
- 11 Volleyball: Georgia, here.
- 13 Volleyball: North Carolina-Charlotte, here.
- 14 "Midnight Tip-Off." A celebration of the opening of basketball season with a demonstration/practice by the Varsity team. Sponsored by Central Spirit, Littlejohn Coliseum, 12 midnight. Open to all Clemson basketball fans. Call 656-2153 for more information.
- 14 Volleyball: Western Carolina, here.
- 14 Soccer: Clemson Invitational, N.C. State, Davis & Elkins, and South Florida, here, 6 and 8 p.m.

OTHER EVENTS

- 7 "Winetasting with Aldo Chello." Sponsored by University Union, Edgar's, \$4. Call 656-2461 for more information.
- 7 Tigerama. Pep rally followed by skits by student organizations, the crowning of Miss Homecoming and a fireworks display. Sponsored by Blue Key and WSBF, Frank Howard Field, 7 p.m. Admission \$1. Call 656-2153 for more information.
- 7-17 Architecture Alumni Show. An exhibition celebrating the 25th anniversary of the College of Architecture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 8 Homecoming USA. The Bob Hope Show. Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Tickets may be purchased at Union Box Office. Call 656-2461 for more information.
- 11 College Bowl Match. Sponsored by University Union, Union Board Room, 6:45-8:45 p.m. Call 656-2461 for more information.
- 12 Pre-Cruise Social for cruise participants only. Sponsored by University Union, Palmetto Ballroom, 7-9 p.m. Free. Call 656-2461 for more information.
- 12 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 2:30 p.m. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.

THE HISTORY OF THE UNITED STATES

CHAPTER I

1

THE HISTORY OF THE UNITED STATES

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CHAPTER II

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CU EVENTS (Cont.)

- 13 Performing Artist Series. "The Comedy of Errors" performed by the Alabama Shakespeare Festival. Sponsored by University Union and Alumni Association, Tillman Hall Auditorium, 8 p.m. Individual tickets \$6.50, season tickets available. Call 656-2461 for more information.
- 13 Pep rally for Duke game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.
- 15 Quarter Century Symposium Dinner celebrating the 25th anniversary of Harlan E. McClure as dean of the College of Architecture and the 25th anniversary of the college as an independent academic unit. Speaker, Lawrence Anderson, Dean Emeritus, Massachusetts Institute of Technology. Sponsored by Clemson Architectural Foundation and College of Architecture, Clemson House. Call 656-3081 for more information.



October 12, 1983
Vol 23 No 9 [8]

OCT 12 1983

CU FOUNDATION CELEBRATES 50 YEARS OF SERVICE

The Clemson University Foundation Oct. 6 celebrated its Golden Anniversary with a Clemson House banquet at which 79 past, present and honorary Foundation directors were recognized for their support of academic excellence at the University.

According to executive director Jim Strom, the Foundation was established in the midst of the Depression to provide financial support to students and members of the faculty.

"Twenty-four donors contributed the first \$559.19 to the Foundation," he says. "Three of the donations came from insurance dividends totaling \$14.19."

Since then, the University's endowment has risen to \$10.2 million, with the major growth occurring during the past 10 years.

The Foundation currently manages \$2.3 million in restricted funds for endowed chairs, \$816,000 for endowed professorships, \$1 million for scholarships and \$93,000 for achievement awards.

There are also endowed funds for graduate programs, library facilities and other programs.

Strom says growth of the University's unrestricted endowment continues to be a top goal of the Foundation.

The Foundation has had 10 presidents in its 50-year history, and more than 80 directors have been appointed.

PRESIDENT'S COUNCIL APPROVES COMPARATIVE SALARY STUDY

In a brief, quarter-hour session presided over by Provost David Maxwell, the President's Council Sept. 30 unanimously approved a request for a comparative study of faculty salaries at peer institutions.

Faculty Senate President Holley Ulbrich, chairman of the Commission on Faculty Affairs, said that such a study was conducted several years ago and that faculty members would like to have it updated.

"We would like to see a comparative study of other peer institutions, particularly of those in the Southeast," said Ulbrich.

"It is our feeling that such information is useful to faculty, to administrators in recruiting and setting salaries, and to the administration in supporting budget requests," she said.

The Council also unanimously approved a request for adjustments in the daytime meal allowances for employees traveling in state.

"We feel that the current travel allowance does not represent the actual cost of meals," said regulatory and public service programs director Louie Senn, who represented ag sciences Dean Luther Anderson, chairman of the Commission on Public Service Programs.

The current allowances, Senn said, are \$2 for breakfast, \$3 for lunch, and \$7 for dinner.

Continued on page 2.

Continued from page 1.

"You can see that the breakfast and lunch meals are out of line," he said. "It seems that the meal allowances reflect on the person who is an overnight traveler."

Employees in the University's regulatory and public service programs, he said, travel usually within the state. Since most of this travel is not overnight, he said, daytime travelers feel they are getting shortchanged on their meal allowances.

The Council voted to have the request presented to the State Budget and Control Board for consideration.

In other business, Executive Director of University Relations Harry Durham, chairman of the Commission on Public Programs, told the Council that technical problems have delayed installing the campus Videotex system, which "should be in operation by early to mid-November."

Also, the Council received a memo from Vice Provost Jerry Reel, chairman of the Commission on Undergraduate Studies and of a group studying the structure and function of the President's Council, reminding Council members of the Oct. 28 deadline for sending written comments and opinions to that special committee.

President Bill Atchley appointed the panel in July. All members of faculty, staff and the student body are invited to send written comments and suggestions about the President's Council to any one of the following:

-- Vice Provost Jerry Reel, 209 Sikes Hall;

-- Dean of Agricultural Sciences Luther Anderson, 101 Barre Hall;

-- Vice President for Student Affairs Walter Cox, 202 Sikes Hall;

-- Executive Director of University Relations Harry Durham, Trustee House;

-- Vice Provost and Dean of the Graduate School Arnold Schwartz, E-105 Martin Hall;

-- Faculty Senate President Holley Ulbrich, 212 Sirrine Hall.

UNITED WAY CAMPAIGN GETS UNDER WAY WITH CAMPUS GOAL SET AT \$18,000

The University's fifth annual United Way drive has begun, and the steering committee has set a goal of \$18,000 for the campaign that will end Nov. 15.

Many local, county and state human service agencies in Pickens, Oconee, Anderson and Abbeville counties will share your gifts, says 1983 campaign chairman Beulah Cheney, head of publications and graphics services.

"Your gifts will help support human services for the handicapped, the alienated, the sick, the young and the old," she says, "and help provide these people with a better way of life that we all enjoy."

Among the agencies the United Way serves in each county are the Salvation Army, the Red Cross, literacy associations, youth organizations and councils on aging.

Cheney says the payroll deduction plan is a popular way of giving and will be offered again by the Payroll Office. All employees will receive information about this in the near future.

To learn more about the United Way, contact your college or department volunteer or call Cheney at 656-2467.

COMPUTER CENTER OPENS HOUSE; SCIENCES HAVE THEIR DAY

It will take neither computers nor

scientists to figure out what's happening on campus Oct. 20.

And it's a good thing, too -- because the computers and scientists here are going to be very busy that day.

The Computer Center will be in the middle of its annual open house for faculty and staff members, and the College of Sciences will be buzzing with high school students here for its Fourth Annual Science Day.

If you've always wanted to know more about the Computer Center but were afraid to ask, now's your chance, says computer programmer Sue Stegall.

"We want to let people know not only what's here at the Center," she says, "but also what's going on in the world of computers."

Computer vendors from about a dozen companies will display the latest in hardware and software and will demonstrate microcomputers and personal computers, with emphasis on color graphics.

"Most vendors will set up their equipment so people can try it out, ask questions and learn about it," she says.



The Clemson University Newsletter is published for Frank Nix, associate director of electronics services, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Center staff members will also be available to show and tell you all about the University's own VAX-11/780s.

The two-day open house will be Oct. 19-20, 9 a.m.-4:30 p.m., at the Center in the P&AS Building, and at the graphics and research facility in Riggs Hall. A bus will shuttle visitors between the two buildings at 10-minute intervals, says Stegall.

And while the Computer Center is offering close encounters with computers, the College of Sciences will be offering close encounters of another kind.

During the Fourth Annual Science Day, high school students from the Carolinas and Georgia will converge here for a first-hand look at research and career opportunities in chemistry, mathematics, physics, computer science and the life sciences.

According to sciences Dean Henry Vogel, more than 1,500 students attended Science Day last year, and the college is preparing for an even larger turnout this year.

Vogel says the program will be featuring displays, presentations and tours.

"It should give the students a chance to see the exciting things going on in the sciences here and to learn about the specific subdisciplines," he says.

For more information on these two events call 656-3472 (Science Day) and 656-3466 (Computer Center Open House).

PEE DEE AREA GETS
NEW NEWS EDITOR

News from the Pee Dee Agricultural Experiment Station and from the Cooperative Extension Service in the Florence area will now be reported by Jerry Dyer, the area's new news editor.

Continued on page 4.

Continued from page 3.



Dyer

According to Extension director Wayne T. O'Dell, Dyer will report agricultural developments by Experiment Station researchers and will help the Pee Dee's Extension specialists and county agents inform farmers and the public of news and trends in agribusiness.

Dyer, a native of Savannah, Ga., was Pee Dee bureau chief for The State newspaper in Columbia for five years before joining Clemson. He attended the University of Maryland's overseas campus in Bermuda and Armstrong College at Savannah.

He was named outstanding agricultural reporter in 1979, and in 1981 he was honored by the U.S. Forest Service and the S.C. Forestry Commission for his reporting of the disastrous forest-fire season that year.

Dyer succeeds Marion Brown, who has returned to the Marlboro Herald-Advocate in Bennettsville as news editor.

INTERVIEWER JOINS PERSONNEL STAFF

Elizabeth "Liz" Glendening has joined in the employment unit of the personnel

division and assumed duties that include interviewing job applicants for the classified positions posted each week.

Personnel specialist Tannie Teal says Glendening was chosen because of her strong background in interviewing and recruitment.

Before coming here, Glendening was senior personnel representative for the Heath/Zenith Corp. in St. Joseph, Mich. There she was responsible for recruiting and advertising and for writing and editing the firm's two monthly publications.

Explaining her job here, she says, "I will be trying to help [job applicants] match their qualifications to the positions we have open."

Glendening earned her bachelor's degree in sociology from Hillsdale College in Hillsdale, Mich.

COMMITTEE REMINDS FACULTY OF GRANT PROPOSAL DEADLINE

Applications for University Research Grant Committee grants must be in the Office of University Research (E-102 Martin Hall) not later than Nov. 1.

Application forms are available in the research office, and only proposals using committee forms will be considered.

The committee makes awards to new faculty members, to faculty members redirecting research interests, and to faculty members in areas where research support is inadequate or nonexistent.

If you have questions, call the research office at 656-2375.

CU EVENTS

OCT 19 1983

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Oct. 14-21

LECTURES AND EXHIBITS

- 14 "The Future of Architectural Education," by Harlan E. McClure, dean, College of Architecture. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 9:30 a.m. Open to public. Free. Call 656-3081 for more information.
- 14 "The Future of Architecture," by Harold Fleming, The Potomac Institute, Washington, D.C. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 10 a.m. Open to public. Free. Call 656-3081 for more information.
- 14 "The Future of Computer Graphics in the Practice of Architecture," by Doug Stoker, associate partner, Skidmore, Owings & Merrill, Chicago, Ill. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 2 p.m. Open to public. Free. Call 656-3081 for more information.
- 14-17 Architecture Alumni Show. An exhibition celebrating the 25th anniversary of the College of Architecture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday, 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 15 "The Future of International Practice and Its Cultural Dilemmas," by Ricardo Legorreta, architect, Mexico City, Mexico. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 1:30 p.m. Open to public. Free. Call 656-3081 for more information.
- 15 "The Future Role of the A.I.A. in Architectural Practice," by George Notter, president, American Institute of Architects, Washington, D.C. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 3 p.m. Open to public. Free. Call 656-3081 for more information.

CU BANCHE



Il presente documento è un estratto dalla relazione annuale della Banca d'Italia per l'anno 1998. La relazione è divisa in tre parti principali: la prima parte descrive l'attività della Banca d'Italia nel corso dell'anno, la seconda parte presenta i dati finanziari e la terza parte contiene le conclusioni e le prospettive future.

La Banca d'Italia ha svolto un'attività intensa nel corso dell'anno, con particolare attenzione alla vigilanza sulla stabilità finanziaria e alla promozione della politica monetaria. I dati finanziari mostrano un andamento positivo, con un aumento delle riserve e una riduzione dei rischi.

Le conclusioni della Banca d'Italia sono che la situazione finanziaria è stabile e che le prospettive future sono positive. La Banca d'Italia continuerà a svolgere un'attività intensa nel corso dell'anno prossimo, con particolare attenzione alla vigilanza sulla stabilità finanziaria e alla promozione della politica monetaria.

CU EVENTS (Cont.)

CONCERTS

- 20 Pierce Pettis. Sponsored by University Union Gutter, 8-11 p.m. Donations accepted. Call 656-2461 for more information.
- 21 Clemson University Chorus and N.C. State University Chorus joint concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 21 Clemson House Show: Albert Collins and the Icebreakers. Sponsored by University Union, Clemson House Ballroom, 8 p.m. Call 656-2461 for more information.

FILMS

- 14-15 "Man From Snowy River." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with Univ. I.D. Call 656-2461 for more information.
- 16 "Murder by Death." Sponsored by University Union, Y-Theater, 8 p.m. Free with Univ. I.D. Call 656-2461 for more information.
- 17 "Oliver." Sponsored by University Union, Y-Theater, 8 p.m. \$1 with Univ. I.D. Call 656-2461 for more information.
- 19 "Night of the Living Dead." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.
- 20-22 "Creepshow." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. \$1.50 with Univ. I.D. Call 656-2461 for more information.

SPORTS

- 14 Volleyball: Western Carolina, here, 7 p.m.
- 14 Basketball: "Midnight Tip-Off," a celebration of the opening of basketball season with a demonstration/practice by the Varsity team. Sponsored by Central Spirit, Littlejohn Coliseum, mid-night. Open to public. Call 656-2153 for more information.
- 14 Soccer: Clemson Invitational, N.C. State, Davis & Elkins, and South Florida, here, 6 and 8 p.m.
- 15 Cross Country: Clemson Invitational, here, 10:30 a.m.
- 16 Soccer: Clemson Invitational, N.C. State, Davis & Elkins, and South Florida, 1 and 3 p.m.
- 20 Soccer: Wake Forest, here, 8 p.m.

The first part of the paper discusses the importance of the study of the history of the United States. It is argued that a knowledge of the past is essential for a full understanding of the present. The author then goes on to discuss the various factors which have influenced the development of the United States, including the role of the government, the economy, and the culture.

In the second part of the paper, the author discusses the role of the government in the development of the United States. It is argued that the government has played a crucial role in the shaping of the nation, and that its actions have been influenced by a variety of factors, including the interests of different groups of people. The author then goes on to discuss the role of the economy in the development of the United States, and the role of the culture in the shaping of the nation.

The third part of the paper discusses the role of the culture in the development of the United States. It is argued that the culture has played a crucial role in the shaping of the nation, and that its actions have been influenced by a variety of factors, including the interests of different groups of people. The author then goes on to discuss the role of the economy in the development of the United States, and the role of the culture in the shaping of the nation.

CU EVENTS (Cont.)

OTHER EVENTS

- 15 College of Architecture 25th Anniversary Celebration and Dinner, with speaker Lawrence Anderson, Dean Emeritus, Massachusetts Institute of Technology. Sponsored by Clemson Architectural Foundation and College of Architecture, Clemson Room, Clemson House, 8:30 p.m. Call 656-3081 for more information.
- 15 Graduate Record Exam. Sponsored by Counseling and Career Planning Center, Martin Hall 8 a.m.-5:30 p.m. Call 656-2451 for more information.
- 15 Tiger Town Invitational Golf Tournament. Sponsored by YMCA and Clemson Area Youth Center, Woodhaven Golf Course. Call 646-9511 for more information.
- 16-20 Substance Awareness Week. Sponsored by Alcohol & Drug Abuse Committee. Call 656-2153 for more information.
- 17 "Women's Fitness," an exercise program for strengthening and toning muscles. Sponsored by YMCA, YMCA Center. Call 656-2460 for more information.
- 18 Placement orientation. Sponsored by cooperative education and placement, Senate Chambers, 10:10 a.m. All seniors must attend one session before they can interview on campus. Call 656-2152 for more information.
- 19 Short Course: "Bridal Seminar." Sponsored by University Union, Senate Chambers, 7-8:30 p.m. \$3. Sign up at Union Information Desk, or call 656-2461 for more information.
- 19-20 Computer Center Open House. Sponsored by Computer Center, Riggs Hall and P&A Building, 9 a.m.-4:30 p.m. Call 656-3466 for more information.
- 20 Fourth Annual Science Day for High School Students. Sponsored by Science Organization's Council, 9 a.m.-2:30 p.m. Call 656-3472 for more information.
- 21 Pep rally for NC State game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.

1. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
2. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
3. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
4. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
5. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
6. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
7. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
8. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
9. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.
10. The effect of the 2004 tsunami on the health of the population in Sri Lanka: a cross-sectional study. *Journal of the Royal Society of Medicine* 2007; 100: 1-10.

October 26, 1983
Vol 23 No 11 [9]

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



OCT 27 1983

PROF TESTS VIDEO GAMES IN GERIATRIC CENTERS

Take a sterile, non-stimulating environment, add the excitement of a touch-down, a hole-in-one, or an occasional strike of the ninepins, and see what happens:

Can video games help improve the quality of life for residents of geriatric centers?

Fran McGuire, an assistant professor of therapeutic recreation, asked that question, and he's getting some help in finding the answer.

The Atari Corp. has donated \$1,000 in video games equipment, and the Office of University of Research has chipped in a \$1,000 grant to assist McGuire in researching the effects of home video games on residents of geriatric centers.

Preliminary findings of the research, says McGuire, indicate that video games can have positive effects in nursing home settings.

"I know it may sound silly at first to think such a simple thing as a video game might improve life for these people," he says, "but you have to remember that it's just a tool."

He says video games were chosen for the research because they are a one-player activity, they are mobile, they require no supervision, and residents can spend as much or as little time as they want playing them.

The intent of McGuire's research is to "test the psycho-social variables of self-esteem and happiness of nursing cen-

ter residents." Early findings show, he says, that game-players had a significant increase of these two variables, while the control group showed no change.

"We've found the games are stimulating to the staff also," says McGuire, "and that raises the question could the increased stimulation of the staff rub off on the patients and cause increased interaction?"

Another question raised, he says, is whether the games will increase visitation by family members? For example, if

Continued on page 2.



While video games may be fun in the Union, says PRTM Asst. Prof. Fran McGuire (above), they may also have an important role to play in nursing homes.

Continued from page 1.

grandma or grandpa has video games to play, will the children visit more often?

But the more far-reaching question, he says, concerns the quality of the nursing home environment. Namely, if such a simple thing as a video game does bring about positive effects, what does this say about the quality of the environment in nursing homes?

McGuire thinks the environment in most nursing homes is so sterile almost anything novel will be stimulating. Further, he says, the games reintroduce the element of choice.

"When people move into a nursing home, they lose a lot of their independence to make their own choices and decisions," he says. "[The games] are a tool for returning choice and freedom in that [the patients] can decide what they want to play, when they want to play, and with whom they want to play."

McGuire's first phase of research was conducted at the Oconee Geriatric Center. He plans further research at the Lila Doyle Nursing Home and at the Oconee Community Residence for mentally retarded adult males. All facilities are in Seneca.

PRESIDENT REAFFIRMS COMMITMENT TO MINORITY RECRUITMENT PROGRAMS

Minority recruitment efforts built on programs with proven records of success and shaped by new ideas and needs will continue to be a top priority here, President Bill Atchley pledged in recent remarks to black student leaders.

Speaking to members of the Minority Council -- defined in the Student Handbook as "the voice of minority students at Clemson" -- the president reaffirmed the University's commitment to "increasing black representation in the student body, faculty and staff."

Citing Clemson's achievements in minority recruitment, Atchley encouraged the students to let him and other administrators know where improvements are needed.

"I urge you to use the Minority Council to bring matters to our attention if minority concerns are not being met," he said. "We need to know so we can address these concerns and meet them."

"We also want to know when and where successes are being experienced, so we can continue to use whatever is successful to build on and to expand."

Atchley challenged the students to become more involved in campus organizations and extracurricular activities. "It's important that you make the most of your out-of-class experience by becoming more involved in student activities," he said. "This makes for a well-rounded education, as well as serving as a source of pleasure and fulfillment."

Noting there are more than 200 recognized student organizations here, Atchley told the council members: "If you do not find one that fits within a specific need, ambition, or dream of yours, start your own -- that's how all the others came into being -- and there are experienced persons in the Office of Student Life ready and willing to help you."

"If you have a problem gaining access to or contacting an established organization, get in touch with the Office of Student Life. They are there to help you."

Atchley was invited to speak to the Minority Council on the topic "What Is My Position?" Turning to that question, the president said:

"I want to say that I'm concerned about opportunities for all students and groups in our society. Why am I concerned? Because as we move toward a post-industrialized society, the future of our nation and state will depend on the strength of our human resources."

"Investment in human capital to achieve the maximum educational development of ALL people, therefore, becomes a top priority.

"I believe that the American promise to enable each person to become all he or she is capable of being will be met only if all means for personal development are equally available to all people, regardless of circumstances of background."

As evidence of his and the University's commitment to those ideals, the president cited the Administrative Management Trainee Program and the Graduate Incentive Fellowship Program.

He said six young black professionals have joined the staff through the trainee program, through which selected blacks are trained in professional-level positions and then become permanent University employees.

Clemson currently has nine black graduate students participating in the fellowship program, which provides financial support to qualified South Carolina residents.

Because "extensive efforts are being

made to identify and recruit blacks for faculty positions," he said, the University gained three new black faculty members this semester -- raising the total to 21 blacks in 15 departments.

Black undergraduate enrollment went up 43.6 percent from fall 1981 to fall 1982, Atchley said. He said black graduate enrollment increased 36.4 percent during that period.

"I don't know of any clearer way to show you what my position is and what it will continue to be," he told the students.

Follow-up figures

Since the president's remarks to the Minority Council, the Office of Admissions has calculated enrollment figures for the current semester.

Of the 12,549 students enrolled on and off campus, 591 are classified as "minority," according to Albert Marx, associate director of admissions and registration.

Of those, he says, 515 are blacks, 39 are Asians or Pacific Islanders, 26 are Hispanics, and 11 are American Indians or Alaskan natives.

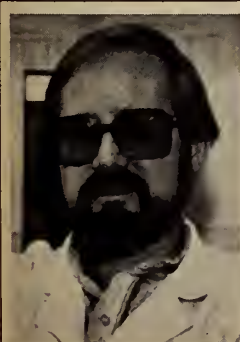
In 1982, 394 minority students were enrolled here, Marx says. In 1981, the number was 276.

The Newsletter also checked with the Office of Human Resources for an update on the Administrative Management Trainee Program and the Graduate Incentive Fellowship Program.

Jane Knapp of that office says all six of the original participants in the trainee program completed it successfully and are now in regular University positions. Four new trainees began the program this year.

Two Graduate Incentive Fellowships

Continued on page 4.



The Clemson University Newsletter is published for Darrell Yardley, an associate professor of zoology, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Continued from page 3.

were added to that program this year, she says, which increased the total to nine. Each fellowship is worth \$5,000.

Both the trainee and the fellowships programs are supported with state desegregation funds allocated by the Commission on Higher Education.

AG SALES CENTER HAS MILK BY THE GALLONS

The next time you sneak off to buy an ice cream cone at the Ag Sales Center, you may want to pick up a gallon of milk while you're there.

Milk is now available in gallons and half-gallons, says ag science associate Al Black, plant manager at the center.

"People had been asking about it," says Black, "and we had been telling them it was coming. So, we want them to know it's here."

You can now buy both whole milk and lowfat milk in gallon and half-gallon plastic containers, he says. Chocolate milk and buttermilk are available, too, in half-gallons.

Other dairy products at the center, in addition to the famous Clemson blue cheese, include sour cream, butter, cottage cheese and ice cream.

The center is in Newman Hall. Hours are 9 a.m.-5 p.m. Monday-Friday; 9 a.m.-1 p.m., Saturday; and 1-5 p.m. Sunday.

For more information on the products available at the center, call 656-3092.

DEPARTMENTAL NOTES

Announcements of professional accom-

plishments of faculty and staff appear in the last Newsletter each month.

Administrative Programming

G. D. Alexander (Dir) has been reappointed to a two-year term on the Cause Editorial Committee. Cause is the association for professionals engaged in the development, use and management of information systems in higher education.

Ag Economics & Rural Sociology

H. M. Harris Jr. (Prof), J. C. Hite (Alumni Prof), and B. H. Robinson (Prof and Hd) made presentations on "Aspects of Agricultural Policy" to the Agricultural Committee at the Southern Legislative Conference in Savannah, Ga. July 17-19.

Prof. Hite has been appointed by Gov. Dick Riley to the Task Force on Economic Development Strategies.

The following papers were presented at the annual meeting of the American Agricultural Economics Association at Purdue University July 31-Aug. 3:

-- "Money Map, a Computerized Financial Planning Tool" by J. W. Jordan (Assoc Prof) and G. L. Watkins III (Instr), presented at a symposium on microcomputer applications.

-- "Empirical Evaluation of Alternative Forecast Models" by J. C. O. Nyankori (Assoc Prof).

S. E. Miller (Assoc Prof) chaired a selected paper session at the meeting.

Animal Science

J. R. Diehl (Assoc Prof) presented a

paper, "Use of Alfaprostol for Control of Parturition," at the Workshop on Controlled Reproduction in the Pig at the University of Missouri-Columbia, Sept. 16.

R. G. Godbee (Asst Prof) gave an invited presentation, "Feeding Horses," at the Annual Sales Meeting of Diamond V Mills Inc., in Cedar Rapids, IA, Aug. 24.

Chemical Engineering

J. N. Beard (Prof), B. A. Adesanya (Asst Prof, Lafayette College) and H. N. Rosen (U.S.D.A. - For Serv, Carbondale, Ill) published a paper, "Temperature Distributions and Heat Transfer During the Drying of Lumber," in Drying Technology, 1(1), 117-140 (1983-84).

J. M. Haile (Assoc Prof) and S. Gupta (Grad Asst) published "Extensions of the Molecular Dynamics Simulation Method. II. Isothermal Systems," in the Journal of Chemical Physics, 79, (1983) 3067.

S. S. Melsheimer (Prof) and M. J. Manning (Former Grad Asst) published "Binary and Ternary Ion Exchange Equilibria with a Perfluorosulfonic Acid Membrane" in I. & E.C. Fundamentals, 22, 3 (August 1983).

Chemistry and Geology

K. Dill (Asst Prof), R. L. Batstone-Cunningham (Vstg Inst) and R. E. Hardy (Grad Stu) published "Structural Studies of the M Blood Group Determinant" in the International Journal of Biological Macromolecules, (October 1983) 314-17.

The following papers were presented at the 186th National Meeting of the American Chemical Society in Washington, D.C., Aug. 28-Sept. 2:

-- "Spectroscopy and Photochemistry of Metallopolymer Precursor Complexes of

Ru(II) and 2,2'-Bipyrimidine" by J. D. Petersen (Assoc Prof & Assoc Dean of Sci) and R. R. Ruminski (Vstg Asst Prof).

-- "Photoreaction of Optically Active Compounds of Rhodium III Amines" by Prof. Petersen and L. Lee (Grad Res Asst).

Prof. Petersen presented a seminar, "The Photochemistry of d⁶ Transition Metal Complexes" at the University of Pittsburgh in Pittsburgh, Pa., Sept. 15.

Computer Science

E. W. Page (Assoc Prof) and J. C. Peck (Prof) participated in a panel discussion, "Future Directions of Microcomputers in the Apparel Industry," at the Annual American Apparel Manufacturers Association and Bobbin Show in Atlanta, Ga., Sept. 22.

A. J. Turner (Assoc Prof & Hd) was program chairman for the National Educational Computing Conference in Baltimore, Md., June 6-8. He has also been named to chair two committees: the Curriculum Committee for Computer Education for the Association for Computing Machinery and the Steering Committee for the Secondary Education Project for the American Federation of Information Processing Societies.

English

R. J. Calhoun (Alumni Prof) and R. W. Hill (Assoc Prof) published James Dickey in Twayne's United States Authors Series, G. K. Hall, Boston, Mass., (September 1983).

S. K. Eisiminger (Assoc Prof) published "Language Etiquette" in Vertabim (Summer 1983).

Continued on page 6.

Continued from page 5.

J. L. Idol (Prof) conducted a workshop, "Ways to Improve Verbal Performance of Students," for language arts teachers in School District 1 of Cherokee County, Aug. 26.

G. W. Koon (Assoc Prof & Actng Hd) published "Tammy Wynette and the Objective Correlative" in Vol. 6 of Studies in Popular Culture.

K. L. Osborn (Vstg Instr) published two poems, "Winter Delivery" and "Final Burning," in Jumping Pond: Poems and Stories from the Ozarks (Springfield, Mo.: SMSU, 1983).

C. F. Paulenich (Instr) published six poems: "August," "Catfire," and "Calendars" in Arachne; "Reaping" and "Bringing Rain to Oconee County" in Visions; and "Goat-Man at Home" in The Georgia Review.

C. H. Sawyer (Prof) has been named editor of the newly founded 4077th N*E*W*S-Letter, a quarterly publication devoted to scholarly articles on the TV series, M*A*S*H. In its second issue, the N*E*W*S-Letter has gained subscribers nationwide from Florida to Oklahoma to Maine, and in Canada.

D. C. Tillinghast (Asst Prof) published two poems, "Jane Collier" and "Brown Cove," in The Southern Review, 18, No. 3 (Summer 1983) 542-544.

E. P. Willey (Assoc Prof) published five poems: "Coming into Focus" in Reader's Choice, and "Suddenly," "Oaks," "Two Bits," and "Nine-to-Five" in Kindred Spirit.

Entomology, Fisheries and Wildlife

T. M. Brown (Assoc Prof) and P. K. Bryson (Res Spec II) presented a paper, "Recovery of Carboxylesterase Following Inhibition by Organophosphinates" to the

Pesticide Chemistry Division at the annual meeting of the American Chemical Society in Washington, D.C., Aug. 29.

A. G. Eversole (Assoc Prof), R. J. Eldridge (NMFS, Charleston Lab) and L. W. Grimes (Assoc Prof) presented a paper, "Growth in Mercenaria mercenaria (L.)" at the 49th annual meeting of American Malacological Union in Seattle, Wash., Aug. 7-13.

J. C. Morse (Prof), J. W. Chapin (Assoc Prof), D. D. Herlong (Former Grad Asst) and R. S. Harvey (Savannah River Plant) published "Aquatic Insects of Upper Three Runs Creek, Savannah River Plant, South Carolina, Part II: Diptera" in Journal of the Georgia Entomological Society (July 1983).

D. L. Robinette (Assoc Prof) and C. R. Dillon (Prof, Biol Sci) hosted the Fifth Annual Meeting of the S.C. Aquatic Plant Management Society Inc. at Camp Hope, Aug. 25-26. Prof. Robinette, a member of the society's board of trustees, served as student paper award judge and was selected president-elect of the society.

The following papers were presented at the 75th annual meeting of the National Shellfish Association in Hilton Head, S.C., June 6-9:

-- "Gonadal Condition of Mercenaria mercenaria in a South Carolina Estuary" by A. G. Eversole (Assoc Prof), W. K. Michener (Former Grad Asst) and P. J. Eldridge (NMFS, Charleston Lab).

-- "Evolution of a Busycon Fishery in the Nearshore South Atlantic Bight" by Prof. Eversole and W. D. Anderson (S.C. Wldlf & Mar Res Dept).

Environmental Systems Engineering

A. W. Elzerman (Assoc Prof), J. Coates (Grad Stu) and A. W. Garrison (EPA Lab, Athens, Ga) presented a paper, "New Meth-

ods of Analysis of Polynuclear Aromatic Hydrocarbons in Plant Tissues," at the American Chemical Society National Fall Conference in Washington, D.C., in August.

Prof. Elzerman has been appointed to the Executive Committee of the Environmental Chemistry Division of the American Chemical Society.

Financial Aid

M. G. Wilson (Stu Counsl) gave a panel presentation on "Pell Grant Validation" at the fall meeting of the S.C. Association of Student Financial Aid Administrators in Columbia, Sept. 19.

4-H and Youth Development

S. R. Mullen (Asst Prof) developed and coordinated the program for the Southern Region Urban 4-H Agent Workshop in Atlanta, Ga., Aug. 29-Sept. 1.

At that workshop, B. S. Lawrimore (Co Ext Ldr, Charleston) and K. M. Kalmowitz (Co Ext Agnt, Charleston) presented a program on the transition of 4-H clubs from the schools to the community.

The workshop results will be sent to urban Extension professionals throughout the Southern states.

History

P. E. Ceruzzi (Asst Prof) has published a book, Reckoners: the Prehistory of the Digital Computer, Greenwood Press, 1983.

D. M. McKale's (Prof) book, Hitler: The Survival Myth, has been published in a paperback version by Stein and Day Publishers.

J. V. Reel Jr. (Prof) published "The Image of the Child in Opera" in Opera Quarterly (Summer 1983).

Horticulture

The following have received grants for research projects:

-- J. B. Aitken (Prof), \$1,500 for pecan research from MAAG Agrochemicals, HLR Sciences Inc., Vero Beach, Fla.

-- R. Baumgardner (Prof), \$500 for peach quality research from the National Peach Council.

-- M. G. Hamilton (Assoc Prof), \$11,000 and E. T. Sims (Prof), \$9,000 for sweet potato biomass research funded by the Southern Regional Office, ARS, New Orleans, La., through the U.S. Vegetable Breeding Laboratory, Charleston.

-- A. R. Mazur (Prof), \$500 from each of the following for studies on N source fertilization on bentgrass putting green turf: BFC Chemical Inc., American Peat and Organic Inc., and Farmers Automatic of America Inc.

-- L. C. Miller (Assoc Prof), \$8,625 for turfgrass research from Hoechst Fibers Industries in Spartanburg.

-- R. Ogle (Prof), \$1,000 for evaluating herbicides on cucumbers from ICI Americas Inc.

Housing



Mary Williams was chosen Custodian of the Month for September. She has been with the department since 1971.

Industrial Engineering

C. R. Lindenmeyer (Prof) gave two presentations, "State-of-the-art Work Sampling: Computer Methods for Study Design and Execution" and "The New I.E. Department at Clemson," to the Central South Carolina Chapter of the Institute of Industrial Engineers in Columbia, Sept. 21.

Prof. Lindenmeyer was elected to the 1983-84 board of directors of the Institute of Industrial Engineers, Greenville-Spartanburg Chapter. He also received a \$3,000 engineering research grant to study "Manufacturing Job Shop Labor Time/Cost Modeling." P. Hammes (Grad Stu) assisted in the project.

Interdisciplinary Studies

F. H. Bilge (Asst Prof) was the invited chairman of a session on "Calcification of Cardiovascular Prostheses" at the meeting of the American Section, International Society for Heart Research at Hilton Head, Sept. 23-24.

Prof. Bilge was awarded a one-year research grant from the S.C. Heart Association to study "Adsorption of Host Plasma Proteins on Blood Parasites."

A. F. von Recum (Prof), R. S. Figliola (Asst Prof, Mech Eng) and A. Rosenbaum presented a paper, "An Extracorporeal Method for Determining Blood Pressure During Roller Pump Cardiac Bypass," at the Second Southern Biomedical Engineering Conference in San Antonio, Texas, Sept. 26-27.

Management

M. J. Stahl (Prof and Hd), T. W. Zimmerer (Prof) and A. Gulati (Grad Stu) have had an article, "Measuring Innova-

tion, Productivity and Job Performance of Professionals: A Decision Modeling Approach," accepted for publication in IEEE Transactions on Engineering Management.

Prof. Zimmerer, G. Manners (Conslt, Mescon Group, Atlanta, Ga.) and J. Steger (V-P for Acad Affrs, Univ of Cincinnati, Ohio) published an article, "Motivating your R & D Staff," in Research Management, Vol. XXVI, No. 5 (Sept.-Oct 1983).

Marketing

R. M. Reese (Assoc Prof) and W. W. Stanton (Old Dominion) published "Three Conjoint Segmentation Approaches to the Evaluation of Advertising Theme Creation" in the Journal of Business Research, Vol. 11 (Summer 1983).

Mathematical Sciences

H. F. Senter (Assoc Prof) and P. R. Saunders (Wash State Univ) published a paper, "Preparing and Simulating Recreational Activity: Two Approaches" in Annals of Tourism Research, J. Jafari and Pergamon Press, Ltd., Vol. 10 (1983) 265-276.

D. R. Shier (Prof), J. J. Filliben and K. Kafadar (Nat Bur of Stand) published a paper, "Testing for Homogeneity of Two-Dimensional Surfaces," in Mathematical Modelling, Vol. 4 (1983) 167-189.

Mechanical Engineering

J. G. Goree (Prof) presented a paper, "Analysis of a Hybrid Unidirectional Buffer Strip Laminate," written with L. R. Dharani (Asst Prof Eng Mech, Univ of Mo), at the Second International Conference on Composite Structures in Paisley, Scotland, Sept. 14-16.

J. A. Liburdy (Assoc Prof) organized a session, "High Rayleigh Number/Variable Property Natural Convection," at the ASME/AICHE 21st National Heat Transfer Conference in Seattle, Wash., July 24-27.

V. Prasad (Vstg Asst Prof) presented "Experimental Investigation of Buoyancy Driven Heat Transfer in Vertical Porous Annuli" at the 20th Annual Meeting of the Society of Engineering Science in Newark, Del., Aug. 22-24.

Physics and Astronomy

P. B. Burt (Prof and Hd) published a paper, "Persistent Interactions in Fermion-Boson Systems," in Lett. Nuovo Cimento, 38, 103 (1983).

Prof. Burt was host to Hungarian visiting scientist Gyorgy Pocsik, of the Institute for Theoretical Physics, Eotvos University, Budapest, Sept. 16-21. The visit was jointly sponsored by the National Academy of Science and the Hungarian Academy of Science.

Plant Pathology and Physiology

L. W. Baxter Jr. (Prof), Peggy A. Mitchell (Ag Aide) and S. G. Fagan (Ag Sci Asst) published two articles, "The Influence of Number of Leaves on Camellia Japonica Scions on Grafting onto C. Sasanqua Stock" and "Inoculation of Susceptible Seedlings of Camellia Sasanqua, and Isolation and Growth of Glomerella Cingulata, the Fungus Responsible for Camellia Dieback and Canker" in Carolina Camellias, Vol. 35(2) (Spring 1983).

M. H. Collins (Former Grad Res

Asst), J. F. Murphy (Grad Res Asst), W. Witcher (Prof) and O. W. Barnett Jr. (Prof) published "Presence and Prevalence of Some Viruses in Commercially Grown Cowpeas in South Carolina" in Phytopathology 73(3):500 (March 1983) Abstr.

D. M. Talbert (Former Grad Res Asst) and N. D. Camper (Prof) published "Herbicide Effects on AIBA Uptake and Efflux in Tobacco Cell Suspension Cultures" in Environmental and Experimental Botany, Vol. 23(2):161-166.

Sociology

R. J. Knapp (Prof) gave an invited lecture on the clinical characteristics of the bereaved family and conducted a workshop on research methods at the Perinatal Bereavement Conference in Minneapolis, Minn., in September.

J. W. Ryan (Asst Prof) published a chapter, "Success, Failure and Anomie in Arts and Crafts Work: Breaking in to Commercial Country Music Songwriting," in Research in the Sociology of Work, Jai Press Inc., (1983).

Textiles

H. M. Behery (Prof) coordinated a training workshop for personnel of Cotton Arbitration and Testing General Organization (CATGO), Alexandria, Egypt. The program was conducted by the School of Textiles and the Professional Development Office of the College of Commerce and Industry Sept. 12-Oct. 9 and was sponsored by the FAO-Food and Agriculture Organization of the United Nations, Rome, Italy.

AN OVERVIEW OF TENURE AND PROMOTION

By David Maxwell
Provost and Vice President for Academic Affairs

(Editor's Note: In the following essay, Provost David Maxwell addresses some of the questions and concerns often raised by faculty members about tenure and promotion decisions. The provost prepared this essay for the Newsletter in an effort to improve communications between his office and the faculty and to promote a better understanding of how tenure and promotion decisions are viewed "in Sikes Hall.")

When the provost fails to recommend tenure for or promotion of a faculty member who has been so recommended by his or her peer committee, department head, and dean and the president supports the recommendation of the provost, there is often an understandable and negative reaction from those who had recommended tenure or promotion and an even greater reaction from the faculty member most directly affected. In its most virulent form, this reaction tends to be "How dare they? How can those who have no intimate knowledge of my field of expertise make a judgment that I am not qualified for tenure or promotion and overrule the recommendations of those who are so qualified? It should be clear to anyone that I am at least as well-qualified as some of those in my department who have been tenured or promoted in the past." In even its mildest form, the reaction is one of puzzlement, "Where are they coming from anyhow?"

The basic response stems from the fact that the president and the provost, and only they among those who are involved in the processes by which tenure and promotion are awarded, must view these processes from the standpoint of the University as a whole. As a consequence, considerations must be prominent in their thinking that are not nearly so eminent in deliberations at the college or department level. While the welfare of the individual faculty member is always important, the greater allegiance of the president and provost must always be to the University as a whole. What is best for the University is the question that must have the greatest priority.

From this viewpoint, the process of awarding tenure is a process by which the University selects, from among those completing the probationary period in a given year, the particular faculty members to whom it is in the best interest of the University to make lasting commitments. Admittedly, from the standpoint of the individual faculty member, the process is inequitable. Often the individual is required to meet standards that are more rigorous than those faced by older members of his or her department when they were awarded tenure. Moreover, the individual wants stipulated standards of performance that do not change through time and the meeting of which will guarantee receipt of tenure. Instead, the faculty member is compelled "to shoot at a moving target."

Much the same can be said of promotion. Typically, the standards for promotion have become more rigorous through time, and younger faculty have to be more productive than was true of their older colleagues at the time at which they were promoted.

From the standpoint of the University as a whole, however, the greater ineq-

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uity would be not to strive for a better qualified and more productive faculty. Lurking behind this consideration are market realities of which the University must be cognizant. Standards for tenure and promotion were less rigorous in the 1950s and 1960s in most fields primarily because universities were then expanding more rapidly and the supply of Ph.D.'s was not, relatively, so plentiful. While the provost and the president might well prefer that the market not be a factor influencing tenure and promotion, they would be negligent in the performance of their duties if they ignored market factors.

The president and the provost must bear in mind other considerations that are related to market realities. The percentage of the faculty who are tenured is increasing, and a few of our departments are completely tenured. Similarly, the distribution of ranks in some of our departments is becoming increasingly "top heavy." This raises the spectre of tenure and rank quotas, an alternative preferable only in its stultifying effects to an almost completely tenured faculty for the vast majority of whom further promotion is not possible. Such quotas greatly inhibit efforts to attract, retain, and reward the best faculty members and are to be avoided if at all possible.

Despite the differential effects of market forces in the various colleges, the provost and the president must attempt to enforce a rough parity in the standards applied in tenure and promotion decisions in the various colleges and departments. It should not be markedly easier to attain tenure or promotion in some colleges and departments than in others. In the absence of any efforts to prevent them, such gross disparities would exist.

Similarly, great differences exist between colleges and departments in the relative emphases placed on teaching, research, and service. In those units in which research is heavily stressed, tenure and promotion recommendations must be closely scrutinized to ensure that the reward structures are not such as to lead to inadequate incentives for proper performance of the University's primary duty -- teaching -- and service. Similarly, in units in which teaching is stressed, adequate incentives must exist for research and service contributions.

The normal fears and uncertainties surrounding decisions on tenure and promotion were exacerbated at our University by the changes in tenure policies and in the administrators who implement our tenure and promotion policies. The old tenure policy, as it was formerly administered, did little to stem the headlong rush toward a completely tenured faculty while severely limiting the flexibility needed to attract outstanding and experienced faculty in areas which were expanding rapidly. Many faculty members for whom Clemson was their first teaching post were evaluated in their fourth year of service in the profession and awarded tenure on the basis of a very short record of service, while efforts to attract senior faculty members from other campuses who had been tenured for many years were seriously hampered by the fact that if they came here they would be returned to a probationary tenure status for at least four years no matter how distinguished a record they had compiled elsewhere or the length of such service.

With the adoption of the new tenure policy, the University turned to what, with minor exceptions, is the type of tenure policy that is characteristic of most major universities. It is a policy which, for neophytes, increases the

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probationary period while simultaneously permitting flexibility in determining, at the time of appointment, the length of the probationary period for new faculty with tenured or tenure-track service at other universities.

Since it was possible to do so under its terms, the administration of the old policy was altered in emphasis so as to yield much the same result as the new policy for faculty who elected to remain under the old policy. This change of emphasis was overt and widely publicized prior to the time at which faculty members who had the option of selecting either policy exercised their choice. Nonetheless, the change in the manner in which the old policy is administered meant a change in the expectations of many individuals and a consequent increase in the level of uncertainty.

Returning to an initial question, evaluations of teaching effectiveness and service contributions are, by and large, not discipline specific. Thus, recommendations and the bases upon which the recommendations are founded, if explicit, can readily be evaluated regardless of discipline, so far as teaching effectiveness and service contributions are concerned.

Evaluating the research contributions of faculty members from many disparate fields is more difficult but not perhaps as arduous as one might think. Experienced administrators have often had experience (as members of university-wide promotion and tenure committees, as employees of or consultants for foundations or governmental units evaluating research proposals and vitae of faculty from many fields, as participants in hiring of faculty in many areas, etc.) in evaluating the research contributions of faculty members in many disciplines other than those in which the administrators received their degrees. The administrator also has the benefit, if the dossier is properly prepared, of critical evaluations of these contributions by persons trained in the discipline in question. Thus, the administrator is not being as presumptuous as might appear in evaluating the professional activity of the candidate for tenure or promotion.

This is by no means a contention that the provost and the president are infallible. Undoubtedly, there are occasions on which incomplete or poorly prepared dossiers lead to errors of judgment. And undoubtedly there are occasions on which the judgments are simply wrong through no fault of the dossier. Perhaps a better understanding of how tenure and promotion are viewed "in Sikes Hall" will, however, alleviate any fears or uncertainties stemming from the roles of the provost and president in tenure and promotion decisions.

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

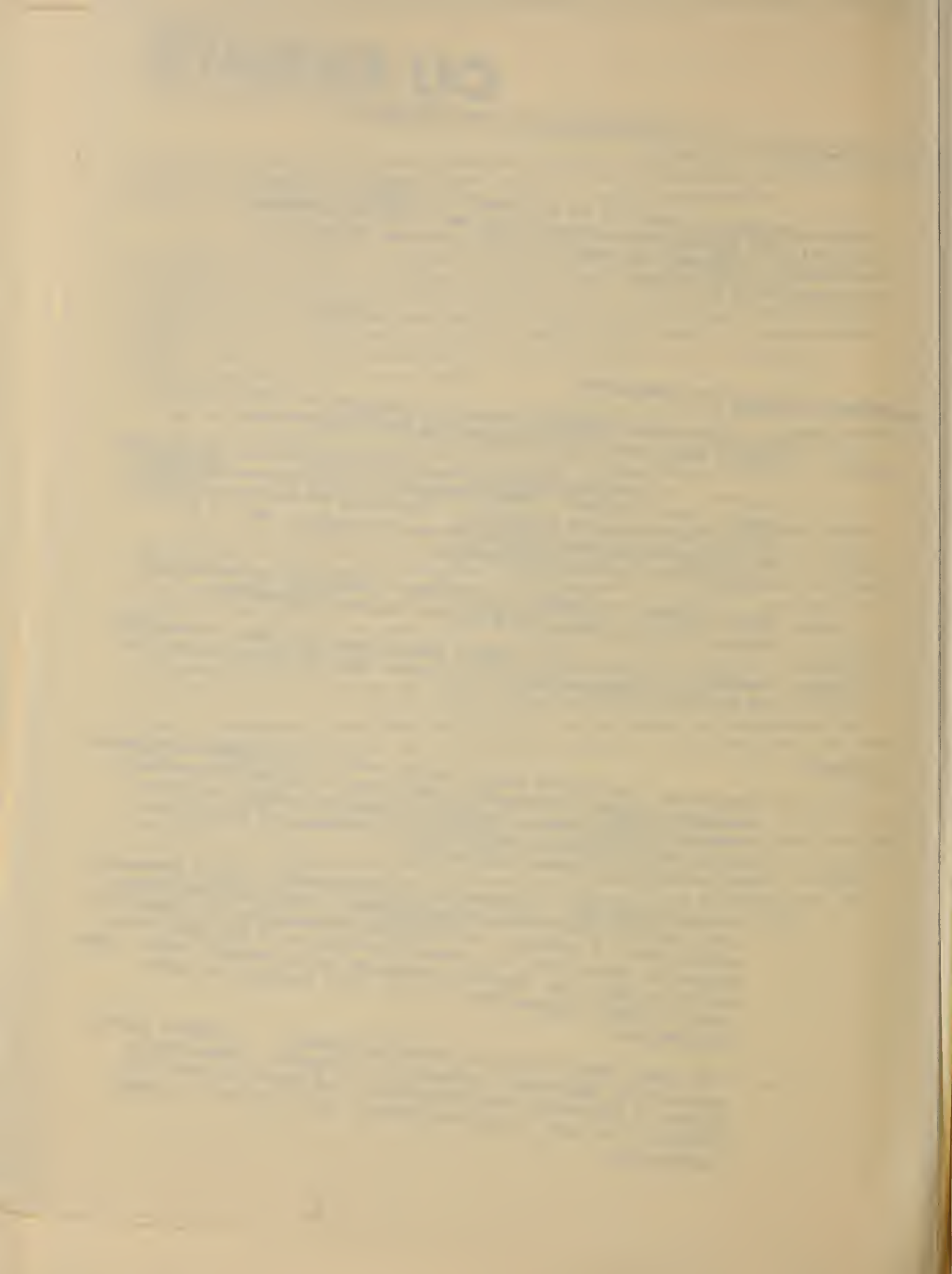
Oct. 21-28

WORKSHOPS, SEMINARS AND CONFERENCES

- 23-26 Workshop: "Plant Operators Forum." Sponsored by Continuing Engineering Education. Call 656-3308 for more information.
- 24 Seminar: "U.S.-European Agricultural Trade Issues" led by Jan Hinekens, vice president, COPA (Committee of Agricultural Organizations of the European Community). Sponsored by Extension Service and College of Agricultural Sciences, 104 McAdams Hall, 3 p.m. Call 656-3460 for more information.
- 24 Short Course: "Beginning Bartending." Sponsored by University Union, 7-9 p.m., \$3. Call 656-2461 for more information.
- 25-26 Workshop: "Surfactants: Their Use and How They Work." Sponsored by Professional Development. Call 656-2200 for more information.

LECTURES

- 24 "Nature of the Present Energy Crisis and Its Unfolding" by Nicholas Georgescu-Roegen, Distinguished Professor of Economics Emeritus, Vanderbilt University. Sponsored by Strom Thurmond Institute, Daniel Hall Auditorium, 3:30 p.m., reception, 108 Strode Tower. Call 656-4700 for more information.
- 25 "In the Beginning: Creationism and Evolution," a panel discussion with Tom Coss, head of biology department, Bob Jones University; Robert Kelly, a biologist with Enright Laboratories in Greenville; Richard R. Montanucci, an associate professor of zoology, here; and J. C. Morse, an associate professor of entomology, here. Sponsored by AAUP, McAdams Hall, 4 p.m. Call 656-3030 for more information.
- 26 "The Legal Ramifications of Advising Students" by Parker Young, professor of Education, University of Georgia. Sponsored by Office of Admissions and Registration and Office of the Vice Provost, 7:30 p.m., Lyles Auditorium. Call 656-2171 for more information.



CU EVENTS (Cont.)

DRAMA AND CONCERTS

- 21 Clemson University Chorus and North Carolina State University Chorus joint concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 21 Clemson House Show: Albert Collins and the Icebreakers. Sponsored by University Union, Clemson House Ballroom, 8 p.m. Call 656-2461 for more information.
- 24 Spanish plays presented by students -- "La distancia" (The Distance) and "Los esclavos" (The Slaves), two short one-act plays dealing with problems in contemporary society. Sponsored by languages department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3393 for more information.
- 25 Chamber Music Series: "Ruddigore," a concert version of Gilbert and Sullivan's Operetta. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 21-22 "Creepshow." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with University I.D. Call 656-2461 for more information.
- 23 "In Cold Blood." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.

SPORTS

- 22 Football: North Carolina State (Textile Bowl), here, 1 p.m.
- 23 Soccer: Jacksonville, here, 2 p.m.
- 26 Soccer: USC-Spartanburg, 7:30 p.m.
- 28 Volleyball: N.C. State, here.

OTHER EVENTS

- 21 Pep rally for N.C. State game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.
- 22 Graduate Management Admission Test. Sponsored by Counseling and Career Planning Center. Martin Hall, 8 a.m.-12 noon. Call 656-2451 for more information.

OCT 26 1983

CU EVENTS

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Oct. 28-Nov. 4

WORKSHOPS, SEMINARS AND CONFERENCES

- 1 Workshop: "Slashing." Sponsored by Professional Development. Call 656-2200 for more information.
- 2-3 Workshop: "Upholstery." Sponsored by Professional Development. Call 656-2200 for more information.
- 2-3 Workshop: "Computers in Manufacturing." Sponsored by Professional Development, Ramada Inn. Call 656-2200 for more information.
- 2,9,16 Short Course: "Frame Making." Sponsored by University Union, G-02 Godfrey Hall, 7-10 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 3 Short Course: "Beginning Breadmaking." Sponsored by University Union, 7-10 p.m. Call 656-2461 for more information.
- 5 Conference: "Children's Literature Symposium," speaker Arnold Lobel, author and illustrator. Sponsored by English department and College of Liberal Arts, Daniel Hall and Strode Tower, 8:45 a.m.-3 p.m. Open to public. Call 656-3151 for more information.

DRAMA

- 5-12 Play: "American Buffalo," a Clemson Players' production. Daniel Hall Auditorium, 8 p.m., 6th and 10th at 3:30 p.m. No performance Nov. 7. Students free, faculty and staff \$1, others \$2. Call 656-2476 for reservations and information.

SPORTS

- 28 Volleyball: N.C. State, here.
- 29 Football: Wake Forest (Parent's Day), here, 1 p.m.

November 2, 1983

Vol 23 No 12 [10]

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



NOV 2 1983

TRUSTEES APPROVE CONTRACT FOR EXPANDING CALHOUN COURTS

The Board of Trustees Saturday, Oct. 22, approved a \$3.5-million contract to expand Patrick Noble Calhoun Courts and authorized the issuance of \$2.6 million in plant improvement bonds to fund campus renovations.

In a special, called meeting, the Trustees accepted the low bid of \$3.5 million from Vector Corp. of Walhalla to expand Calhoun Courts by 150 beds. With land preparation, paving, furnishing and other costs, the total price tag on the project is \$4.4 million.

The plant improvement bonds will primarily fund renovations to Godfrey Hall. Funds left from that project will be used to improve the mechanical system of Cooper Library and the University's sewage treatment plant.

In other action, the five Trustees who make up the Fertilizer Board of Control levied a \$50 fine against Darlington Farm Services for a mislabeling infraction involving 18 tons of fertilizer.

ROTC WEEK TO INCLUDE SALUTE TO VETERANS

A military parade, a jet display, a formal "Salute to Veterans" and an address by a former prisoner of war who is now a U.S. senator will highlight this year's observance of ROTC Week, Nov. 7-12.

Alabama Sen. Jeremiah Denton, a former Viet Nam POW, will begin the week's

events with an address in Tillman Hall Auditorium Monday, Nov. 7, at 3:30 p.m.

The visit by the retired admiral, who was held captive for seven years, will be jointly sponsored by Arnold Air Society, Angel Flight and the Strom Thurmond Institute.

On Thursday, Nov. 10, the 770th Air Force ROTC Cadet Wing will commemorate Veteran's Day with the fall semester military parade.

"The cadets have worked hard all semester," says Maj. Rich Sutherland, an assistant professor of aerospace studies, "and this ceremony is their chance to share in the spotlight. This year the cadets pay tribute to the veterans, past and present, who have sacrificed for their country."

The parade will begin at 4 p.m. on Bowman Field. The drill will include an exhibition by the Cadet Wing's Honor Guard.

A formal dinner is on tap for Friday evening, Nov. 11, with guest speaker and Clemson alumnus Maj. Gen. Clifton Wright of Washington, D.C., director of engineering services for the Office of the Deputy Chief of Staff of the Air Force.

Throughout the week, several exhibits will be on display on the loggia -- including a T-38 jet display, a U.S. Army Medal of Honor display and a U.S. Army ROTC Cadet display.

The observance will continue Saturday, Nov. 12, with an army equipment display during the "Tiger Tailgate Show" on the lawn of Littlejohn Coliseum before

Continued on page 2.

Continued from page 1.

the Clemson-Maryland football game.

Also, halftime ceremonies at the game will include a performance by the U.S. Army Old Guard Drill Team and a "Salute to Veterans."

Col. Lewis Jordan, a professor of aerospace studies, says the special week of activities is intended "to enhance the image of ROTC here on campus and in the upper state as well."

LIBRARY MAY BENEFIT FROM A LOT OF BALLOONY

One of the wackiest and most ambitious schemes to be cooked up on the Clemson campus in recent memory could produce a financial boost for the Cooper Library.

And all it will take is a quarter of a million balloons, a couple of hundred tanks of helium, a half-million feet of string, and 1,500 or so student volunteers.

At the start of the Clemson-Maryland football game on Saturday, Nov. 12, students will attempt to set a new world's record for the most helium-filled balloons released at one time.

The plan is for 250,000 orange balloons to rise from Death Valley at about 1 p.m. that day -- as the football team runs down the stadium's east-end hill, as the Tiger Band plays "Tiger Rag," as 75,000-plus fans express their delight, as the Maryland Terrapins wonder why they got off the bus.

The way the library works into all of this is that Student Government, which is responsible for getting this project off the ground, is soliciting, with IPTAY's support and assistance, contributions to pay for the event, and any money left over after the expenses are paid will be donated to the library.

Student Body President David Stalnaker says the sky's the limit on a project like this -- especially in view of the enthusiasm that's already building. The organizers seem confident that their written appeal to all IPTAY members and general appeal to all Clemson supporters and friends will result in a financial lift for the library.

The students are also hoping the project will lift the spirits of Clemson people to an all-time high, according to Stalnaker and Mark Wilson, Student Government research and development director.

For that reason -- as well as to reflect what will actually happen at the stadium -- the students have named the project "Rising Above."

For more information, call Stalnaker or Wilson at 656-2195; call Joe Turner, executive secretary of IPTAY, at 656-2101; or write to "Rising Above," P.O. Box 31, Clemson, S.C. 29631.

By the way, the students say the current record for helium-filled balloon ascension was set Jan. 1, 1982, at the Sands Hotel in Las Vegas, Nev. The number: 208,477.

WATER RESOURCES RESEARCH INSTITUTE RECEIVES \$115,000 U.S. GRANT

The S.C. Water Resources Research Institute (WRRI) has received a \$115,000 grant from the federal Office of Water Policy to fund five water research projects.

According to civil engineering Prof. Paul Zielinski, director of WRRI, the principal investigators and their research projects are:

-- Thomas Keinath, environmental systems engineering, \$24,000 to study granular activated carbon, a substance with the potential of removing toxic organic chemicals from industrial wastewaters.

-- David Snipes, chemistry and geology, \$19,000 for mapping permeable, water-bearing fracture zones in Greenwood County.

-- Soronadi Nnaji, civil engineering, \$17,500 for determining the water uses (industrial and recreational) of selected streams in the Piedmont.

-- Jimmy Fowler and Ben Sill, civil engineering, \$15,500 to study a new technique for measuring evaporation.

REMEMBER THAT NOVEMBER
IS INSURANCE-CHANGE MONTH

Take note, advises Ron Herrin, director of payrolls and employee benefit programs, that this is the month to make changes in your state Blue Cross/Blue Shield insurance coverage. If you want to make any changes in your coverage, you should stop by the Payroll/Insurance Office, G13 Sikes Hall, to complete a Notice of Election form.

November is also "open enrollment" month for the cancer coverage programs offered by the University.



The Clemson University Newsletter is published for Ray Harrell, an administrator in data processing, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Herrin asks that every employee with dependents check to make sure the Blue Cross/Blue Shield coverage on those dependents meets the requirements of the program.

Those requirements are listed in a Oct. 20 memo from Herrin to all employees. If you didn't get a memo, call his office at 656-2000.



COMPUTER-TESTING NEWTON'S LAWS -- Testing Newton's laws of motion is now easier for physics students since the department installed a dozen computer terminals in its instructional lab. Cooperation within the department reduced the cost of the computers to about one-tenth the commercial price, says department head Phil Burt. The department bought personal computers locally at \$100 each; its woodworking shop built the cabinets for the video display screens; its electronics shop extended the memory and did the interfacing; and its machine shop made the mechanical devices to equip the stations. "These will certainly improve the offering for students," says Burt. "We can do experiments now that 20 years ago we couldn't conceive of doing because of the amount of time involved." Here, Max Miller, the professor who initiated the project, oversees an experiment by students Earl Allison (foreground) and Larry McClure.

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1983-84

MAJOR	NON-DEGREE	PROF MAST	MA/MS	EDS	EDD/ PHD	TOTAL
COLLEGE OF AGRICULTURAL SCIENCES						
AGRICULTURE (UNDECLARED)	17	-	-	-	-	17
AGRICULTURAL ECONOMICS	-	7	8	-	-	15
AGRICULTURAL ENGINEERING	-	1	12	-	-	13
AGRICULTURAL MECHANIZATION	-	8	-	-	-	8
AGRONOMY	-	3	20	-	-	23
ANIMAL & FOOD INDUSTRIES	-	-	26	-	-	26
ANIMAL PHYSIOLOGY	-	-	-	-	-	-
ANIMAL SCIENCE	-	2	-	-	-	2
APPLIED ECONOMICS	-	-	-	-	-	-
DAIRY SCIENCE	-	8	-	-	-	8
ENTOMOLOGY	-	-	10	-	-	10
HORTICULTURE	-	5	14	-	-	19
NUTRITION	-	10	11	-	-	21
PLANT PATHOLOGY	-	2	8	-	-	10
PLANT PHYSIOLOGY	-	-	-	-	-	-
WILDLIFE BIOLOGY	-	-	17	-	-	17
TOTAL AGRICULTURAL SCIENCES	17	47	126	-	72	262
COLLEGE OF ARCHITECTURE						
ARCHITECTURE (UNDECLARED)	1	-	-	-	-	1
ARCHITECTURE	-	69	-	-	-	69
CITY & REGIONAL PLANNING	-	24	-	-	-	24
VISUAL STUDIES	-	9	-	-	-	9
TOTAL ARCHITECTURE	1	102	-	-	-	103
COLLEGE OF EDUCATION						
EDUCATION (UNDECLARED)	217	-	-	-	-	217
ADM & SUPERVISION	-	41	-	31	-	72
AGRICULTURAL EDUCATION	-	25	-	-	-	25
ELEMENTARY EDUCATION	-	102	-	-	-	102
INDUSTRIAL EDUCATION	-	18	-	-	-	18
PERSONNEL SERVICES	-	115	-	-	-	115
READING	-	24	-	-	-	24
SECONDARY EDUCATION (ENGLISH)	-	4	-	-	-	4
SECONDARY EDUCATION (HISTORY)	-	6	-	-	-	6
SECONDARY EDUCATION (MATH)	-	4	-	-	-	4
SECONDARY EDUCATION (NAT SCI)	-	10	-	-	-	10
SPECIAL EDUCATION	-	24	-	-	-	24
VOCATIONAL & TECHNICAL EDUC	-	-	-	-	-	-
TOTAL EDUCATION	217	373	-	31	16	637
COLLEGE OF ENGINEERING						
ENGINEERING (UNDECLARED)	3	-	-	-	-	3
BIO-ENGINEERING	-	22	-	-	-	22
CERAMIC ENGINEERING	-	0	-	-	-	0
CHEMICAL ENGINEERING	-	1	23	-	-	24
CIVIL ENGINEERING	-	14	28	-	-	42
COMPUTER ENGINEERING	-	28	-	-	-	28
ELECTRICAL ENGINEERING	-	7	41	-	-	48
ENGINEERING MECHANICS	-	-	-	-	-	-
ENVIR SYSTEMS ENGINEERING	-	12	30	-	-	42
INDUSTRIAL ENGINEERING	-	-	14	-	-	14
MECHANICAL ENGINEERING	-	9	10	-	-	19
TOTAL ENGINEERING	3	43	229	-	49	324

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1983-84

MAJOR	NON-DEGREE	PROF MAST	MA/MS	EDS	EDD/ PHD	TOTAL
COLLEGE OF COMMERCE AND INDUSTRY						
COMMERCE & IND (UNDECLARED)	14	-	-	-	-	14
ACCOUNTING	-	14	-	-	-	14
BUSINESS ADMINISTRATION	-	191	-	-	-	191
ECONOMICS	-	-	12	-	-	12
INDUSTRIAL MANAGEMENT	-	-	37	-	-	37
MANAGEMENT SCIENCE	-	-	-	-	-	-
TEXTILE & POLYMER SCIENCE	-	-	-	-	-	-
TEXTILE CHEMISTRY	-	-	10	-	-	10
TEXTILE SCIENCE	-	-	10	-	-	10
TOTAL COMMERCE AND INDUSTRY	14	205	67	-	41	327
COLLEGE OF LIBERAL ARTS						
LIBERAL ARTS (UNDECLARED)	4	-	-	-	-	4
ENGLISH	-	-	35	-	-	35
HISTORY	-	-	9	-	-	9
TOTAL LIBERAL ARTS	4	-	44	-	-	48
COLLEGE OF NURSING						
NURSING (UNDECLARED)	36	-	-	-	-	36
FAMILY HEALTH NURSING	-	-	28	-	-	28
TOTAL NURSING	36	-	28	-	-	64
COLLEGE OF SCIENCES						
SCIENCES (UNDECLARED)	5	-	-	-	-	5
BIOCHEMISTRY	-	-	2	-	-	2
BOTANY	-	-	6	-	-	6
CHEMISTRY	-	-	20	-	-	20
COMPUTER SCIENCE	-	-	61	-	-	61
MATHEMATICAL SCIENCES	-	-	39	-	-	39
MICROBIOLOGY	-	-	16	-	-	16
PHYSICS	-	-	14	-	-	14
ZOOLOGY	-	-	13	-	-	13
TOTAL SCIENCES	5	-	171	-	-	289
COLLEGE OF FOR & REC RESOURCES						
FOR & REC RES (UNDECLARED)	5	-	-	-	-	5
FORESTRY	-	13	16	-	-	29
RECREATION & PARK ADM	-	33	2	-	-	35
TOTAL FOR & REC RESOURCES	5	46	18	-	8	77
GRAND TOTAL						
	302	816	683	31	299	2131

NOV 3 1983

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Nov. 4-11

WORKSHOPS, SEMINARS AND CONFERENCES

- 5 Conference: "Children's Literature Symposium" with Arnold Lobel, author and illustrator. Sponsored by English department and College of Liberal Arts, Daniel Hall and Strode Tower, 8:45 a.m. - 3 p.m. Open to public. Call 656-3151 for more information.
- 7 Short Course: "Copyright It Yourself." Sponsored by University Union, E-1 Martin Hall, 7-8 p.m. Free. Call 656-2461 for more information.
- 7-8 Workshop: "Program Evaluation." Sponsored by Nursing Continuing Education, College of Nursing. Preregistration required. Call 656-3078 for more information.
- 7 Short Course: "Judo." Sponsored by University Union, 7-8 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 8 Short Course: "Resume Writing." Sponsored by University Union, Senate Chambers, 7-9 p.m. Free. Sign up at Union Information Desk, or call 656-2461 for more information.
- 8-9 Conference: "17th Annual Clemson Turfgrass Conference." Sponsored by horticulture department and Extension Service in cooperation with the Carolinas Golf Course Superintendents Association, Ramada Inn. Call 656-3403 for more information.
- 9 Seminar: "Computer Simulation of Dense Fluids." Sponsored by mechanical engineering department, 300 Riggs Hall, 3:30-4:30 p.m. Call 656-3470 for more information.
- 10 Seminar: "Change of Phase Heat Transfer in Contact Line Region." Sponsored by mechanical engineering department, 300 Riggs Hall, 2-3 p.m. Call 656-3371 for more information.
- 10 Short Course: "How to Buy a Used Car." Sponsored by University Union, Senate Chambers, 6-9 p.m. Free. Call 656-2461 for more information.

CU EVENTS (Cont.)

LECTURES

- 7 U.S. Sen. Jeremiah Denton of Alabama, retired U.S. Navy admiral and Viet Nam POW, will speak in commemoration of POW-MIA Awareness Week. Sponsored by Strom Thurmond Institute, Angel Flight, and Arnold Air Society, Tillman Hall Auditorium, 3:30 p.m. Open to public. Call 656-4700 for more information.
- 7 "Projects of BRW" by David Bennett, A.I.A., BRW, Minneapolis, Minn. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 8 "Go for It! How to Make \$ Without Working from 9-5" by Brett Kingstone. Sponsored by Speaker's Bureau, Tillman Hall Auditorium, 7 p.m. Open to public. Call 656-2153 for more information.
- 9 English Hour lecture -- "Charlotte Smith and the London Book-sellers" by Judith Stanton, an assistant professor of English. Sponsored by English department, Strode Tower Lounge, 8 p.m. Open to public. Free. Call 656-3151 for more information.
- 11 "Business and Education in a Changing World" by James L. Ferguson, chairman and chief executive officer, General Foods Corporation, and chairman, Council for Financial Aid to Education. Sponsored by Strom Thurmond Institute and elementary and secondary education department, Daniel Hall Auditorium, 3:30 p.m., reception following in 108 Strode Tower. Call 656-4700 for more information.

DRAMA AND CONCERTS

- 5-12 Play: "American Buffalo," a Clemson Players production. Daniel Hall Auditorium, 8 p.m., 6 and 10 at 3:30 p.m. No performance Nov. 7. Students free, faculty and staff \$1, others, \$2. Call 656-2476 for reservations and information.
- 9 Clemson University Concert Series: Franz Liszt Chamber Orchestra of Hungary. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students show activity card, others present season tickets (\$20 adults, \$10 students) or ticket may be purchased at the door (\$6 adults, \$2 students). Call 656-3043 for more information.

FILMS

- 6 "Herbie Rides Again." Sponsored by University Union, Y-Theater. Free with University I.D. Call 656-2461 for more information.
- 6-9 French Film Festival Week featuring four feature-length films by director Jean Gremillon. Sponsored by Five Directions Cinema and languages department, Hardin Hall Auditorium, 7-10 p.m. Free. Call 656-3193 for more information.

CU EVENTS (Cont.)

- 7 "On the Water Front." Sponsored by University Union, Y-Theater, 8 p.m. Admission \$1 with University I.D. Call 656-2461 for more information.
- 9 "Chinatown." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m. Call 656-3069 or 3221 for more information.
- 10-12 "Sophie's Choice." Sponsored by University Union, Y-Theater, 7 and 9:45 p.m. \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 4 Volleyball: Virginia. Fike Recreation Center, 7 p.m.
- 5 Volleyball: Georgia Tech, South Carolina. Fike Recreation Center, time to be arranged. Call 656-2114 for more information.
- 6 Volleyball: Wake Forest. Fike Recreation Center, 2 p.m.

OTHER EVENTS

- 1-21 MFA Alumni Show. An exhibition by three former Clemson MFA students: Robert Doster, sculpture; Susan Baker Wooten, paintings and drawings; and Guy Allison, paintings. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 5-6 Backpacking trip to Pisgah National Forest. Sponsored by University Union. Fee of \$22.50 includes breakfast and transportation. Call 656-2461 for more information.
- 7 Carolina Journal. Harlan McClure, dean of the College of Architecture, talks about the College of Architecture's 25th anniversary. Sponsored by University Relations, Channel 29, S.C. ETV, 7:30 p.m. Call 656-2061 for more information.
- 7-13 ROTC Week, annual recognition of ROTC with equipment displays and special demonstrations. Sponsored by aerospace studies and military science departments. Open to public. Free. Call 656-3254 for more information.
- 11 Pep rally for Maryland game. Sponsored by Central Spirit, amphitheater, 7 p.m. Open to all Clemson football fans. Call 656-2153 for more information.

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

REPORT OF THE

COMMISSIONERS OF THE

BOARD OF

THE UNIVERSITY OF CHICAGO



PRESIDENT CHALLENGES FACULTY AND STAFF TO FUND 12 NEW ACADEMIC SCHOLARSHIPS

Underscoring the University's critical shortage of top-level "recruiting" scholarships for academically superior students, the administration has turned to the faculty and staff for help in meeting the need.

In a recent letter sent to every employee, President Bill Atchley challenged faculty and staff members to make possible through contributions to the Loyalty Fund 12 new scholarships.

"At present we have only 12 undergraduate 'recruiting' scholarships, i.e., scholarships that are unrestricted and carry stipends of \$1,500 or more," Atchley wrote. "To be competitive with the better colleges and universities in our region we need at least twice this number.

"To fund 12 additional continuing four-year scholarships at \$2,000 each per year would require an additional expenditure (in the fourth year and thereafter) of \$96,000. This is the goal that we pose for you -- \$96,000."

Atchley said the appeal to employees is part of "an intensive effort" to get more private money for academic scholarships.

He said support from the faculty and staff is "doubly important because our alumni will strongly support anything that you have concretely demonstrated to be a first priority."

Atchley said tuition and fee hikes and increasing competition for the best

students have hurt Clemson's efforts to attract superior students.

"As a result," he wrote, "the actual number and percentage of the very best entering students have actually declined. The increase in the median SAT scores of our entering freshmen has come about because we have done a better job of screening our 'high academic risk' students, not because we have increased the number and percentage of the most academically talented students."

The president said every gift to Clemson is appreciated, but he emphasized that "the Loyalty Fund has the greatest flexibility in meeting scholarship and other requests" when gifts are unrestricted.

"I address this appeal to you knowing full well that our faculty and staff are far from affluent," he wrote, "but also knowing that you, more than all others, realize and appreciate the benefits that we receive from attracting outstanding students."

For details about the Loyalty Fund and how to give through payroll deduction call the Alumni Center at 656-2345.

PROVOST UNDERLINES APPEAL FOR SCHOLARSHIP CONTRIBUTIONS

Provost David Maxwell Oct. 28 urged President's Council members to support and participate in the push to raise \$96,000 in faculty and staff contributions for 12 new academic scholarships.

Continued on page 2.

Continued from page 1.

The provost said that, given the number and amounts of scholarships other state and regional universities have to offer, Clemson is in a "very noncompetitive" position when it come to recruiting academically talented students.

He said one of the most effective ways to get more scholarship money from alumni is "to demonstrate that our faculty and staff feel so strongly" about the need that they're willing to make a significant contribution themselves.

Before adjourning its brief October session, the Council decided to combine its November and December meetings into one gathering on Dec. 2.

GENERAL FOODS CHAIRMAN
TO SPEAK HERE FRIDAY

General Foods chief executive James L. Ferguson, chairman of the Council for Financial Aid to Education, will present a public address Friday, Nov. 11, at 3:30 p.m. in Daniel Hall Auditorium.

Under joint sponsorship of the elementary and secondary education department and the Strom Thurmond Institute, Ferguson will draw on his experiences and views as both a corporate officer and education advocate to speak on "Business and Education in a Changing World."

An open reception will immediately follow in 108 Strode Tower.

Ferguson joined General Foods in 1963 and advanced through the company's ranks to become a corporate vice president in December of 1968.

By April 1972, he was executive vice president for four divisions, including Maxwell House, and before the year was over he was president, chief operating officer, and a corporate director. He became chairman and chief executive

officer in 1973 and served as president from 1973 until 1977.

He sits on numerous boards of directors, including those of Union Carbide and Chase Manhattan Bank, N.A.

Ferguson holds degrees from Hamilton College and the Harvard University Graduate School of Business Administration. He is a Hamilton trustee.

As chairman of the Council for Financial Aid to Education, he heads an 28-member board that includes top executives from some of the nation's largest corporations and most prestigious colleges and universities.

The council encourages and monitors private support for higher education.

'THIS IS CLEMSON UNIVERSITY
AND OUR PART IN IT'

Wouldn't it be great if there was a really sharp-looking brochure available to hand out to visitors and guests that said, in a few colorful and well-written pages, "This is what Clemson University and my specific department or program are all about."

There is -- right over there in Central Stores.

It's called the University Capabilities Brochure.

Developed two years ago for the President's Office by the University Relations staff, the white, orange and blue brochure with the CU-Flame embossed on the cover was initially reserved for high-priority projects requiring a limited distribution.

Requests for the document, which can be tailored to suit most any purpose, have become so numerous, however, that the various components have been added to the supplies and resources available

to departments and programs through Central Stores.

The components are the basic folder -- four pages of general information and color photography designed to give a visitor an overall sense of the University -- and the makings of an insert -- front and back covers and blank masthead sheets on which you can print specific information about your area.

The back cover of the basic folder has a pouch into which you can slip the spiral-bound insert.

To order any of the components, you must use the standard "Office and Janitorial Requisition" form (CUBO 202), and you must indicate the item's stock number and bin number. Here's the information you need:

-- University Capabilities Brochure Folder, C.U. Stock No. F994669, Bin No. 0400; \$1 each.

-- University Capabilities Brochure Front Cover, C.U. Stock No. F995254, Bin No. 0401; 13 cents each.

-- University Capabilities Brochure Back Cover, C.U. Stock No. F995839, Bin No. 0402, 6 cents each.



The Clemson University Newsletter is published for Rameth Owens, an assistant professor of history, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

-- University Capabilities Brochure Masthead Sheets, C.U. Stock No. F996424, Bin No. 0403; 3 cents each.

For help in developing the custom-made insert, call Debbie Dunning in the publications and graphics services department at 656-2467.

TUTORIALS WILL FOCUS ON 'FINDING IT FAST'

The Cooper Library next week will offer five tutorials designed to teach faculty and staff members how to make maximum use of the library's computer searching services.

Online services coordinator Frank Diaz says the sessions will focus on Dialogue Information Retrieval Services, through which a person can search for information in more than 200 data bases.

Using the services saves time and effort, he says, and permits a much more thorough search than is possible without computer assistance.

Any member of the faculty or staff may attend any one of the five sessions, says Diaz, since the "how to" part will be the same.

But each session will deal with specific subject-matter areas, so you may want to attend the one emphasizing your particular field or interest.

Here's the schedule:

-- Nov. 14 at 4 p.m., agriculture, forestry, parks, recreation and tourism management;

-- Nov. 15 at 2:30 p.m., physical sciences, engineering, textiles;

-- Nov. 15 at 4 p.m., humanities, social sciences, education;

Continued on page 4.

Continued from page 3.

-- Nov. 16 at 4 p.m., life sciences, biology, nursing;

-- Nov. 17 at 4 p.m., business, economics, management.

To make reservations for a session, call the Reference Desk at 656-3024 or 656-3027 or go by there.

For exact locations of the sessions and other details, call Diaz at 656-3027.

THREE FACULTY MEMBERS HEAD TO ENGLAND TO LEAD PROFESSIONAL DEVELOPMENT PROGRAM

Three University faculty members left for England this week as members of a team that will deliver 45 days of technical and managerial training for British textile giant Courtaulds, Ltd.

The nine-week training program is another step in the Office of Professional Development's growing international outreach, says PD director Ralph Elliott.

Two members of the management faculty, Prof. Tom Zimmerer and Assoc. Prof. Mike McDonald, and Assoc. Prof. Len Berger of the psychology department are three of the five instructors who will lead the PD training seminars from Nov. 14 through Jan. 13, 1984.

Paul Clipp, president of The Southern Associates in Clemson, and textile specialist Bill Price, owner and manager of Price and Company in Greenville, complete the team.

The bond between the University and Courtaulds began forming last spring, when PD conducted a two-week training program here for plant managers from throughout the company's network of British textile mills.

Then, earlier this semester, three Courtaulds representatives came to campus

to meet with officials from PD and the College of Commerce and Industry and to propose a new series of training programs -- the one about to begin in the United Kingdom and a repeat next semester of last spring's two-week program here.

"International outreach is really nothing new for us at Professional Development," Elliott says. "Over the years, a number of our attendees have come from Canada, Mexico, and overseas, and we've conducted extended training sessions for textile personnel from Portugal and Egypt.

"Only the scope of our effort is new . . . and I see it continuing to expand as our reputation in the international textile community grows in Europe and elsewhere."

Elliott says other overseas ventures PD is planning include a possible fact-finding mission next year to the People's Republic of China for U.S. textile executives.

MORE BALLOONY THAN EXPECTED

We told you last week about Student Government's lofty plans to set a new world's record by launching 250,000 helium-filled balloons at the start of the Clemson-Maryland football game Nov. 12.

This week we must report that the number of balloons has expanded.

Extensive research has revealed that the current world's record for the most helium-filled balloons released at once is 300,424 -- not 208,477 as the students had thought.

Therefore, the number of orange orbs rising above Death Valley Saturday will be 315,000 instead of just a quarter of a million.

Talk about inflation!



NOV 17 1983

SCHOLARSHIPS KEY TO RECRUITMENT SAY STUDENT AFFAIRS ADMINISTRATORS

Take the decreasing population of college-age students, add an inadequate supply of scholarship aid, throw in the inevitable competition from peer institutions, and the result is a growing problem for top-level administrators in admissions and recruitment.

But if a problem well-defined is indeed a problem half-solved, administrators here are well on the way to a solution, for they state the problem succinctly.

"Top students today are being vigorously recruited," says Bob Skelton, assistant vice president for student affairs and dean of admissions and registration. "If we want to compete, we have to have additional scholarships. It's as simple as that."

And from Marvin Carmichael, director of student financial aid: "The competition with other institutions is growing significantly. And it's not just here, it's everywhere. In fact, you might compare the recruitment of top students with that of recruitment in athletic programs now."

And from Richard Mattox, director of admissions: "The feeling around here is that Clemson will somehow manage to beat the odds, and we can do that up to a point -- if we can get enough scholarship money."

Beating those odds so that Clemson not only retains but increases its number of outstanding students is going to be a challenge, says Dean Walter Cox,

vice president for student affairs.

"With the academic pool of students decreasing, we have a new challenge," says Cox. "We want to maintain the enrollment of very strong students, but the stronger the students in the pool, the more able they are to go to the school that offers them the most attractive financial package."

A strong scholarship program, then, is the key ingredient in an effective recruiting program, he says, and both scholarships and recruiting are getting extra emphasis here right now.

Specifically, an additional staff member has been added to recruit the more academically proficient students, and extensive time and work are going into updating and distributing new recruiting literature.

Carmichael says the increased emphasis on recruitment and scholarships is all part of the goal to "maximize the visibility of Clemson University to top students and to let them know we think they're special."

"If you want to put it in marketing terms," he says, "we've got a product to sell. We're going to have to define that product, make it as attractive as possible and market it."

And the key to recruiting top students for Clemson University, the administrators agree, is to increase not only the number of scholarships, but the amount of the stipends as well.

According to Carmichael, both the

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number of students with scholarships and the amounts of those scholarships are growing 10 to 15 percent each year. But even at that, he says, Clemson has a lot of catching up to do.

He, personally, thinks that 40 top-level scholarships (at least \$1,500 per year) would be an appropriate goal. Presently, there are 12 such scholarships here, and he says there are immediate plans to increase that number to 17.

"We are actively seeking unrestricted scholarship dollars," he says, "and we've been allocated \$50,000, initially, to address this particular need."

One intent of this allocation is to begin an "intermediate level" of scholarships -- in the \$750 to \$1,000 range -- for academically outstanding students who may not quite qualify for one of the top-level scholarships.

This year, he says, 550-600 students are receiving academic scholarships -- including Presidential Scholars, who are awarded annual stipends of \$250.

Mattox, who, as admissions director, has a close-up view of the problems caused by inadequate scholarship funds, says the University is "terribly disadvantaged" with its present number and amounts of scholarships.

"With the Georgia Techs and the Dukes and the Virginias and the North Carolinas," he says, "we are competing with academically prestigious institutions which also have significant scholarship incentive programs."

But Clemson has some special incentives of its own.

The University's selective admission policy and the tendency of good students who choose Clemson to be pleased with their choice and to encourage friends to come here combine to keep the student body academically strong, says Cox.

"The selective admissions program came about in the first place to protect the students," he says. "It keeps them from coming into an environment for which they are not prepared, and it's played a large role in upgrading the quality of the academic program here."

"Clemson students are achievers, and since achievers are generally happy, their enthusiasm for what they've found at Clemson spreads. They go back home, they tell their friends, and their friends want to come here, too."

And once those friends get here they tend to stay here, as is evidenced by a retention rate that Skelton calls "probably one of the greatest in the country."

Cox agrees with that assessment: "We are very proud of our retention rate," he says. "We had some 89 percent [of last year's freshman class] returning for their second year and 70 percent [of last year's junior class] back for the fourth year."

Indeed, the fact that total enrollment is higher this year than last year is more a result of retention than admission. This year's acceptance rate -- the number of students who enrolled once accepted for admission -- decreased.

The acceptance rate for each of the past five years has hovered between 60 and 65 percent. But this year that dropped to 50 percent.

Although there is no hard evidence on the reason for the lower acceptance rate, Mattox thinks the decrease can be attributed to a combination of reasons.

"I, personally, think that the lower acceptance is due to the combination of the depressed economy, limited scholarship assistance, and our increase in fees. I think in the face of these factors, some students just decided to start out in a community college and maybe enroll at Clemson later."

Mattox says the pool of college age students peaked in 1982, began its

decrease this year, will continue to decrease for the next eight years, and will probably not reach 1982 levels again until the turn of the century.

In 1982, freshman and transfer applications totaled 8,573, while for 1983 the total is 7,783.

And while the number of applications decreased, the number of students accepted increased. In 1982, the University accepted 4,432 students; in 1983 it accepted 4,915.

"But figures may not tell you what you think they are telling you," says Mattox. "Although we accepted 500 more students this year, we ended up with 100 less students accepting us."

(This semester's final enrollment figures from the Registrar's Office are shown on pages 7-12 of this newsletter.)

Freshmen here this year, once again, had the highest average Scholastic Aptitude Test score -- 1,014 -- of any state-supported institution in South Carolina.

That's more than 100 points higher than the national average of 893 and 200

points above the average for high school seniors in the state.

Clemson's retention rate and high SAT scores, says Cox, give the school "a very respected image."

And, the administrators say, if all those positive points were complemented by more attractive financial aid packages, the University would get an even bigger share of the best and the brightest students.

Says Mattox: "We do everything we can to attract the better students, but how successful we will be depends upon the availability of scholarships."

ENGINEERING SOCIETY 'ADOPTS' THE COLLEGE OF ENGINEERING

In a move unprecedented for a professional engineering society in the state, the Piedmont Chapter of the S.C. Society of Professional Engineers has pledged to raise \$6-8 million in equipment and funds to support the College of Engineering here.

The group's decision to "adopt" Clemson was announced at a Greenville luncheon in October by John Boyette, president of the chapter, and Bill Bunting, chairman of the chapter's "Excellence in Engineering Education" task force.

"We strongly believe that the technological future of our nation rests on the adequate education of our young engineers," Boyette said.

Boyette is President of Piedmont Engineers, Architects and Planners of Greenville. Bunting is a vice president of that firm.

The chapter's campaign is prompted by state budget shortfalls and faculty and equipment shortages that have left



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The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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the University hard-pressed to cope with rising enrollments.

The College of Engineering here is the largest in the state, with more than 3,000 undergraduate students, 125 faculty members and \$2.3 million in sponsored research expenditures annually.

"Half of the equipment in our teaching laboratories is older than our students," said engineering Dean Charles Jennett.

"Industrial visitors often indicate that students will have to relearn technology when they enter the job market. This is a serious disservice to students and is certainly not cost-effective to the people of South Carolina."

Boyette said he hopes the chapter's actions will inspire other professional organizations to help engineering colleges and universities across the nation.

"In addition to updating equipment, we hope to provide more graduate study grants and teaching endowments to help fill 15 faculty positions at Clemson that are not state funded," he said.

FOOD PACKAGING EXPERT
JOINS UNIVERSITY FACULTY

It takes the combined skills of an engineer, a chemist and an artist to create the perfect food package, and consumers respond by giving the masterpiece an undignified burial in the kitchen garbage can.

But the fact that no one notices a package is sort of a merit badge in the industry. It means the box, can or pouch was easy to find on the supermarket shelf, simple to open and reclose, and kept its contents fresh.

"People don't pay attention to the package unless it doesn't do its job,"

says Harold Raphael, the newest member of the University's food packaging faculty.

The former associate dean of the College of Applied Science and Technology at the Rochester Institute of Technology will work part time here, lending his expertise and industry contacts to the graduate program and helping develop an undergraduate curriculum.

"For awhile there was a trend toward spending more money on the package," he says. "Today, companies are interested in socially acceptable packaging."

In addition to keeping contents fresh, modern food packages must discourage tampering, cut down on litter and eliminate waste through recycling.

The University's four-year-old master's degree program coaxed Raphael out of retirement because of the program's focus on food, he says.

The packaging programs here is the only one in the country that deals exclusively with food, according to food science department head Woodie Williams.

Raphael, a native of North Bergen, N.J., formerly headed package research and evaluation for Avon Products, Inc., and helped develop the packaging program at Michigan State University, where he taught for 17 years.

"Michigan State has the number one packaging program in the country, which speaks well of Dr. Raphael," Williams says. "He also brings to the curriculum a broad understanding of the packaging industry."

Raphael says he also found Clemson's research emphasis on food preservation to be appealing. The program here has centered on retortable pouches, or flexible tin cans, and plastic film that shrinks around food for a tight fit and doubles the shelf life of certain fruits.

"One of my main concerns is prevent-

ing food spoilage and loss to insects and rodents in developing nations," he says. "One of the causes of world hunger is that 50 percent of the crops produced never get to the people.

"Money spent teaching more people to grow crops might be better spent looking for ways to eliminate food waste. This would involve tailoring a food packaging industry for each country, depending on its individual resources."

Raphael earned his bachelor's degree and doctorate at Michigan State and his master's degree at Oregon State University. He developed the packaging programs at Rochester and has been a consultant to industry on packaging problems since 1958.

He is on the board of directors of the Packaging Institute USA and is a member of the Society of Packaging and Handling Engineers, Sigma Xi and Phi Kappa Phi professional fraternities.

PROPERTY CONTROL DIVISION SETS
SURPLUS AUCTION SALE FOR DEC. 3

Well, why not? Christmas is just around the corner. And the perfect gift for that hard-to-please person on your gift list might be right here at Clemson University.

Continued on page 6.



AN INTERNATIONAL QUINTET -- Les Grady, the University's Bowen Professor of Environmental Systems Engineering, played host recently to four fellow international pollution control researchers when the five met here to form a new task group of the International Association of Water Pollution Research and Control.

Grady says the team will prepare a manual outlining the use of mathematical modeling in the design of wastewater treatment systems.

The group will continue its work in

Tokyo this spring and in Denmark next September. The final report will be presented to the IAWPRC governing board in early 1985.

Shown above, clockwise from left, are the members of the group: Tomonori Matsuo from the University of Tokyo; Willy Gujer from the Swiss Federal Institute for Water Resources and Water Pollution Control in Zurich, Switzerland; Mogens Henze from the Technical University of Denmark, chairman of the task group; Grady; and G.v.R. Marais from the University of Capetown in South Africa.

Continued from page 5.

The property control division will hold a public, surplus auction sale Saturday, Dec. 3, at 10 a.m. in the fenced area behind the Service and Support Facility on Perimeter Road.

Up for bids will be six police sedans, four trucks and a lot of miscellaneous office equipment. Those may not be the kinds of things usually found under Christmas trees, but if reindeer can fly . . .

SEVEN OFFICIAL HOLIDAYS LEFT BEFORE 1983 CALLS IT QUILTS

Lest you've lost count, there are seven official holidays left in 1983 -- counting next Thursday and Friday, Nov. 24 and 25, when the University will close for Thanksgiving.

The other five are Dec. 22, 23, 26, 27 and 30. We'll also start 1984 off right by having a holiday on the first Monday of the year, Jan. 2.

COPELAND JOINS BUSINESS SERVICES

Steve Copeland joined the University this fall as business manager in the Office of Business Services, accepting responsibilities in areas ranging from dining services to debt service administration.

The Auburn University graduate also has responsibilities for the continuing education aspect of the Clemson House, the campus laundry and dry cleaning services, and for vending operations.

He came to Clemson from Anniston, Ala., where he was a senior coordinator with the East Alabama Regional Planning and Development Commission.

THERE'S STILL TIME TO GIVE THE UNITED WAY

Even if you missed the Nov. 15 deadline, you've still got time to make a pledge or a donation in the year's United Way drive, says campaign chairman Beulah Cheney, head of publications and graphics services.

Pledges and contributions will continue to be recorded until about Dec. 1, she says.

As of Nov. 8, \$15,634 had been pledged or donated by 271 University employees. That's 87 percent of the \$18,000 goal for 1983-84.

"Payroll deduction is a convenient way to make a pledge," says Cheney, "and although what you give may seem like a small amount, it has a large impact."

If you need more information or a pledge card, contact the United Way volunteer in your department or call Joann Patterson at 656-2467.

THERE WAS A BUG IN THE NUMBER OF THE BEDS

The number of beds being added to Calhoun Courts is 256 -- not just the 150 reported in the Nov. 2 Newsletter.

NO NEWSLETTER NEXT WEEK

Because of the Thanksgiving break, there'll be no Newsletter next week. The Newsletter will return Nov. 30.

We wish all our colleagues on the faculty and staff a happy and peaceful holiday.

Enrollment by Men and Women - Full Time and Part Time Fall Semester 1983

Classification	MEN			WOMEN			TOTAL		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Semester Freshman	1328	12	1340	1112	21	1133	2440	33	2473
2nd Semester Freshman	256	6	262	172	9	181	428	15	443
Sub-Total	1584	18	1602	1284	30	1314	2868	48	2916
1st Semester Sophomore	909	16	925	760	24	784	1669	40	1709
2nd Semester Sophomore	379	11	390	212	12	224	591	23	614
Sub-Total	1288	27	1315	972	36	1008	2260	63	2323
1st Semester Junior	924	44	968	728	14	742	1652	58	1710
2nd Semester Junior	530	22	552	294	7	301	824	29	853
Sub-Total	1454	66	1520	1022	21	1043	2476	87	2563
1st Semester Senior	644	22	666	560	16	576	1204	38	1242
2nd Semester Senior	606	96	702	305	37	342	911	133	1044
Sub-Total	1250	118	1368	865	53	918	2115	171	2286
Unclassified Undergraduate	6	9	15	3	10	13	9	19	28
Post Graduate	31	18	49	18	15	33	49	33	82
Post Baccalaureate	9	6	15	1	3	4	10	9	19
Total Undergraduate	5622	262	5884	4165	168	4333	9787	430	10217
Unclassified Graduate	8	40	48	6	79	85	14	119	133
Masters	532	202	734	227	204	431	759	406	1165
Education Specialist	1	12	13	0	3	3	1	15	16
Pre-Doctoral	16	3	19	5	0	5	21	3	24
Doctors	171	41	212	46	15	61	217	56	273
Total Graduate	728	298	1026	284	301	585	1012	599	1611
On-Campus Total	6350	560	6910	4449	469	4918	10799	1029	11828
Clemson at G-ville Tech		53	53		48	48		101	101
MBA Clemson-Furman	6	135	141	1	48	49	7	183	190
Institutes		114	114		226	226		340	340
Off-Campus Total	6	302	308	1	322	323	7	624	631
University Total	6356	862	7218	4450	791	5241	10806	1653	12459

Clemson University Fall Semester 1983

Total On-Campus Enrollment by Courses and Academic Classification as of the End of Registration - August 24, 1983

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
AG-ND	0	0	0	0	0	0	0	12	0	0	12
AGRIC	3	1	0	0	0	0	0	0	0	0	4
AG BUS	8	7	6	7	0	0	0	0	0	0	28
AG EC	3	2	2	5	0	0	0	0	15	0	27
AG E	19	13	21	17	0	0	0	0	13	8	91
AG MECH	13	10	17	23	0	0	0	0	8	0	71
ACRON	5	6	5	10	0	0	0	0	22	6	54
A&F IND	0	0	0	0	0	0	0	0	26	0	26
AN IND	3	0	1	0	0	0	0	0	0	0	4
AN PH	0	0	0	0	0	0	0	0	0	9	9
AN SC	23	21	29	33	0	0	0	0	2	0	108
APPL EC	0	0	0	0	0	0	0	0	0	9	9
C R D	0	0	1	5	0	0	0	0	0	0	6
DY SC	5	8	8	3	0	0	0	0	8	0	32
EC BIOL	3	4	5	0	0	0	0	0	0	0	12
EC ZOOL	9	4	4	2	0	0	0	0	0	0	19
ENT	1	2	3	6	0	0	1	0	11	12	36
FD SC	7	0	3	11	0	0	0	0	1	0	22
HORT	20	20	24	26	0	0	0	0	19	0	109
NUTR	0	0	0	0	0	0	0	0	19	11	30
PL PATH	0	0	0	0	0	0	0	0	10	4	14
PL PH	0	0	0	0	0	0	0	0	0	13	13
PL SC	4	0	1	0	0	0	0	0	0	0	5
P S	2	1	3	0	0	0	0	0	0	0	6
W B	0	0	0	0	0	0	0	0	16	0	16
College Total	128	99	133	148	0	0	1	12	170	72	763
ARCH-ND	0	0	0	0	0	0	0	1	0	0	1
ARCH	1	0	1	1	0	2	6	0	69	0	80
BLDSC	13	6	27	22	0	3	0	0	0	0	71
C R P	0	0	0	0	0	0	0	0	23	0	23
DSN BA	31	18	38	30	0	1	0	0	0	0	118
DSN BS	69	41	42	56	0	0	0	0	0	0	208
VIS-ST	0	0	0	0	0	0	1	0	9	0	10
College Total	114	65	108	109	0	6	7	1	101	0	511

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
C and I-ND	0	0	0	0	0	0	0	5	0	0	5
ACCT	137	104	116	79	0	2	0	0	10	0	448
ADM MGT	209	225	223	247	0	1	0	0	0	0	905
AM-OSHA	0	6	14	14	0	1	0	0	0	0	35
MBA	0	0	0	0	0	0	1	0	1	0	2
ECON	7	10	13	12	0	0	0	0	0	0	42
ECON	13	21	35	35	0	0	0	0	12	0	116
E MGT	0	0	0	0	0	0	0	0	0	0	0
FIN MGT	153	144	122	92	0	1	0	0	0	0	512
I M	61	53	66	66	0	1	2	0	36	26	311
MGT	0	0	0	0	0	0	0	0	0	0	0
MGT SC	0	0	0	0	0	0	0	0	0	11	11
T-P-S	0	0	0	1	0	0	0	0	0	5	6
T C	9	7	4	2	0	0	0	0	10	0	32
T S	10	4	2	4	0	0	0	0	8	0	28
TEXT T	22	16	17	27	0	0	0	0	0	0	82
T MGT	1	0	3	0	0	0	0	0	0	0	4
College Total	622	590	615	579	0	6	3	5	77	42	2539
EDUC-ND	0	0	0	0	0	0	0	81	1	0	82
EDUC	2	2	0	0	0	0	0	0	0	0	4
ADM SPV	0	0	0	0	0	0	0	0	36	0	36
AG ED	6	8	10	9	0	0	0	0	12	0	45
E CH ED	28	28	32	38	0	0	0	0	0	0	126
EL ED	58	59	84	85	0	0	0	1	54	0	341
GR COMM	31	17	17	3	0	0	0	0	0	0	68
IN ED	9	12	1	9	0	0	0	0	16	0	47
IN ED-A	4	5	5	6	0	0	0	0	0	0	20
IN ED-I	6	9	9	15	0	0	0	0	0	0	39
IN ED-V	2	4	1	1	0	0	0	0	0	0	8
PER S	0	0	0	0	0	1	2	3	81	0	87
READING	0	0	0	0	0	0	0	1	21	0	22
SC-TCH	1	0	1	0	0	0	0	0	0	0	2
SC T-BS	3	2	4	5	0	0	0	0	0	0	14
SC T-CH	1	0	1	1	0	0	0	0	0	0	3
SC T-ES	1	1	0	2	0	0	0	0	0	0	4
SC T-MA	3	4	10	3	0	0	0	0	0	0	20

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
SC T-PH	1	1	2	3	0	0	0	0	0	0	7
S ED	9	2	3	6	0	3	0	0	0	0	23
S ED-EC	3	0	1	0	0	0	0	0	0	0	4
S ED-EN	8	6	13	12	0	0	0	0	4	0	43
S ED-HI	8	11	8	14	0	0	0	0	5	0	46
S ED-MA	11	5	8	5	0	0	0	0	2	0	31
S ED-FR	0	2	3	1	0	0	0	0	0	0	6
S ED-GE	1	0	0	0	0	0	0	0	0	0	1
S ED-SP	0	0	0	0	0	0	0	0	0	0	0
S ED-NS	1	1	3	3	0	0	0	0	10	0	18
S ED-PO	1	1	2	0	0	0	0	0	0	0	4
S ED-PS	4	1	3	4	0	0	0	0	0	0	12
S ED-SO	0	1	1	0	0	0	0	0	0	0	2
SPEC ED	0	0	0	0	0	0	0	1	17	0	18
V&T ED	0	0	0	0	0	0	0	0	0	16	16
College Total	202	182	222	225	0	4	2	87	259	16	1199
ENGR-ND	0	0	0	0	0	0	0	3	0	0	3
ENGR	95	28	23	17	0	0	0	0	0	0	164
BIOENGR	0	0	0	0	0	0	1	0	22	2	25
CR E	12	16	15	21	0	0	0	0	9	0	73
CH E	124	94	101	91	0	2	0	0	23	4	439
C E	94	83	101	103	1	3	1	0	41	11	438
CP ENGR	204	132	102	49	0	1	0	0	26	0	514
E E	176	158	177	152	0	9	0	0	51	12	735
E A	6	2	4	1	0	0	0	0	0	0	13
E M	0	0	0	0	0	0	0	0	4	3	7
E T	45	54	71	64	1	1	0	0	0	0	236
E S E	0	0	0	0	0	0	1	0	43	4	48
I E	11	6	7	1	0	0	0	0	13	5	43
M E	148	125	218	204	3	8	1	0	40	6	753
SYS ENG	0	0	0	0	0	0	0	0	1	0	1
College Total	915	698	819	703	5	25	4	3	273	47	3492

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
F&RR-ND	0	1	0	0	0	0	0	5	0	0	6
FOR	0	0	0	0	0	0	0	0	29	8	37
FOR MGT	28	17	24	22	0	0	0	0	0	0	91
R P A	37	48	66	69	0	0	0	0	35	0	255
WD UTIL	4	2	4	5	0	0	0	0	0	0	15
College Total	69	68	94	96	0	0	0	5	64	8	404
LA -ND	2	2	0	0	0	0	0	4	0	0	8
LIB ART	36	16	1	0	0	0	0	0	0	0	53
ENGL	50	50	52	50	1	0	0	0	34	0	237
FR	4	5	14	6	0	0	0	0	0	0	29
GER	1	4	4	2	0	0	0	0	0	0	11
HIST	14	12	12	12	0	0	0	0	9	0	59
PO SC	60	53	67	39	0	0	0	0	0	0	219
PSYCH	39	29	34	37	0	0	0	0	0	0	139
SOC	12	13	19	18	0	1	0	0	0	0	63
SPAN	2	5	3	9	0	0	0	0	0	0	19
College Total	220	189	206	173	1	1	0	4	43	0	837
NURS-ND	0	0	0	0	0	0	0	10	0	0	10
NURS BS	105	93	95	62	0	3	0	0	0	0	358
FH NURS	0	0	0	0	0	0	0	0	24	0	24
College Total	105	93	95	62	0	3	0	10	24	0	392
SCS-ND	0	0	0	0	0	0	0	5	1	0	6
BIO CH	33	17	14	7	0	0	0	0	1	1	73
BOT	2	1	3	4	0	0	0	0	6	0	16
CH BA	2	1	3	1	0	0	0	0	0	0	7
CH	13	9	4	9	0	0	1	0	20	25	81
CPINSYS	11	2	1	0	0	0	0	0	0	0	14
COMP SC	195	128	106	76	0	12	1	1	59	0	578
GEOL BA	1	0	0	1	0	0	0	0	0	0	2
GEOL	14	5	8	9	0	0	0	0	0	0	36
MATH BA	1	2	4	9	0	1	0	0	0	0	17
MATH	50	47	52	22	0	2	0	0	40	29	242
MED T	28	9	9	10	0	0	0	0	0	0	56
MICRO	36	28	37	27	0	0	0	0	16	10	154
PHYS BA	1	0	0	1	0	0	0	0	0	0	2

Major Course	Freshman	Sophomore	Junior	Senior	Unclass Ungrad	Post Grad	Post Bacc	Unclass Grad	Masters	Doctor	Total
PHYS	10	10	3	3	0	1	0	0	14	12	53
PM CORE	52	6	0	0	0	0	0	0	0	0	58
P-PHARM	11	18	3	0	0	0	0	0	0	0	32
P-PHY T	30	30	6	1	0	0	0	0	0	0	67
ZOOL BA	1	1	0	0	0	0	0	0	0	0	2
ZOOL	30	20	16	11	0	0	0	0	13	35	125
College Total	521	334	269	191	0	16	2	6	170	112	1621
NON-DEG	17	5	2	0	1	21	0	0	0	0	46
SPEC-ST	3	0	0	0	21	0	0	0	0	0	24
On Campus Total	2916	2323	2563	2286	28	82	19	133	1181	297	11828

NOV 17 1983

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Nov. 18-25

WORKSHOPS, SEMINARS AND CONFERENCES

- 18 Workshop: "Computer Aided Graphics & Design." Sponsored by Continuing Engineering Education. Call 656-3308 for more information.
- 22 Seminar: "Clemson: Cameroon '83" by James A. Miller, an assistant professor of geography, and G. Wesley Burnett, an associate professor of parks, recreation and tourism management. Sponsored by College of Liberal Arts, Hardin Hall Auditorium, 3:30 p.m., reception to follow in 105 Hardin Hall. Call 656-2204 or 656-3153 for more information.

CONCERTS

- 18 "Vixen." Sponsored by University Union, Tillman Hall Auditorium, 9 p.m. Call 656-2461 for more information.
- 20 Clemson Chorale Society Concert. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 22 Chamber Music Series. The Lucktenberg Duo, music for violin and harpsichord. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 20 "Dark Star." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-1461 for more information.
- 21 "High Noon." Sponsored by University Union, Y-Theater, 8 p.m. Admission \$1 with University I.D. Call 656-2461 for more information.

TO: DIRECTOR, FBI (100-371100)
FROM: SAC, NEW YORK (100-100000) (P)
SUBJECT: [Illegible]

RE: [Illegible]

DATE: 11/21/63

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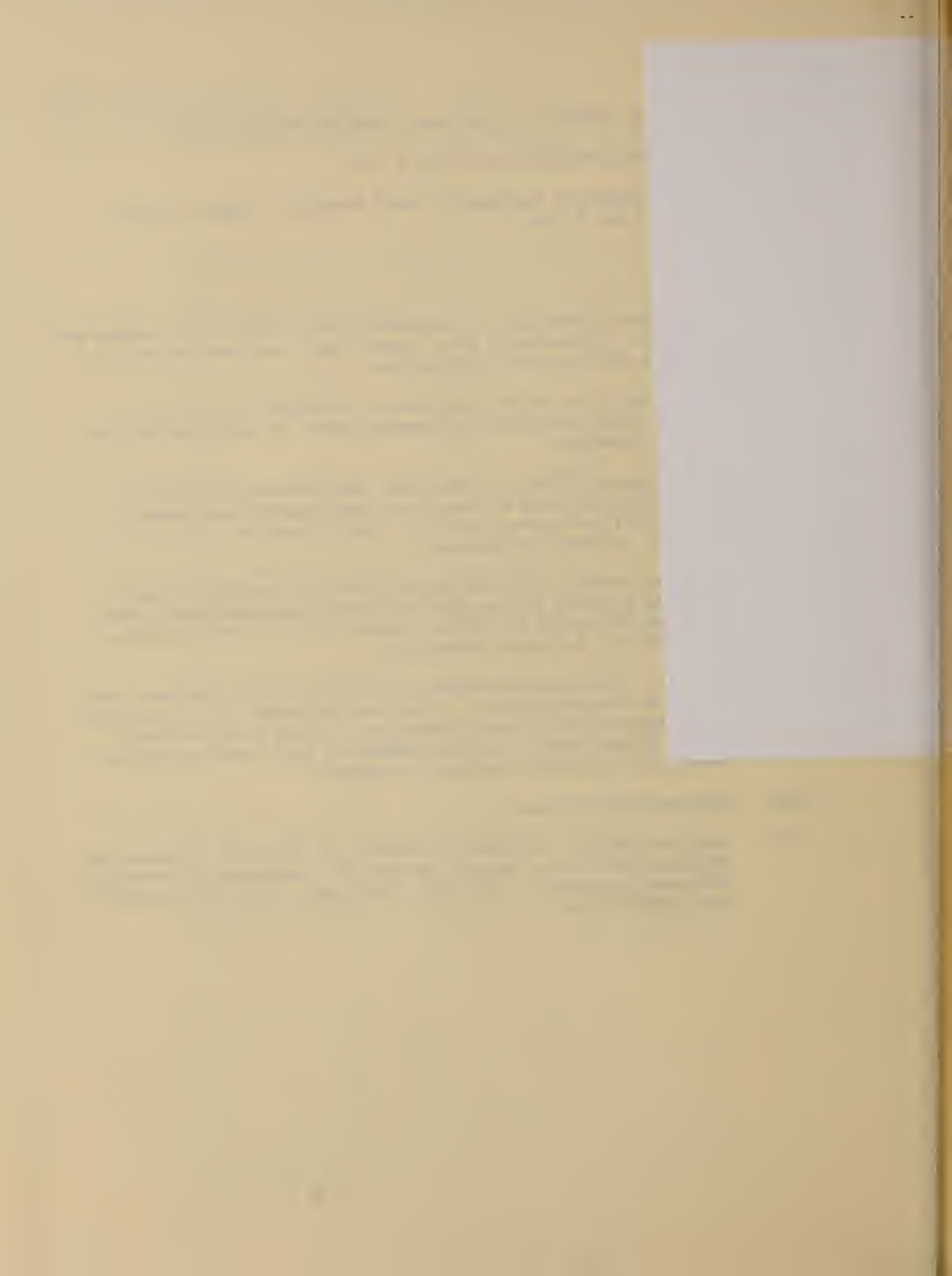
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SPORTS

- 19-20 Swimming, Clemson Invitational, (men and women) here.
- 24 Wrestling, Oregon State, here, 4 p.m.
- 25-26 IPTAY Basketball Tournament, (men) Marquette, Wagner and Air Force, 7 and 9 p.m.

OTHER EVENTS

- 18-Dec. 1 Fall Fresh Citrus Sale -- grapefruit, navel and hamlin oranges and tangelos. Sponsored by YMCA. Order now, fruit arrives Dec. 9. Call 656-2460 for more information.
- 19 Spelunking trip to Lost Sea, Tenn. Sponsored by University Union. Sign up at Union Information Desk, or call 656-2461 for more information.
- 21 Speech contest finals: "Trustees' Medal Oratorical Contest." Sponsored by Clemson Forensic Union and English department, Daniel Hall Auditorium, 8-9 p.m. Open to public. Free. Call 656-3151 for more information.
- 21 Carolina Journal. Tom and Carolyn Drake, representing South Carolina's Family of the Year, talk about Adoption Week. Sponsored by University Relations, Channel 29, S.C. ETV, 7:30 p.m. Call 656-2061 for more information.
- 22-Dec. 16 Exhibit: Architecture Thesis and Terminal Project Reviews, MFA Thesis Review and Exhibit. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 24-25 Thanksgiving holidays
- 28 Carolina Journal. Meredith Nicholson, an assistant professor of nursing, talks about delayed childbirth. Sponsored by University Relations, Channel 29, S.C. ETV, 7:30 p.m. Call 656-2061 for more information.



DEC 1 1983

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



November 30, 1983
Vol 23 No 15 [13]

HARRIS CORP. GIVES \$329,000 COMPUTER TO EQUIP GRADUATE ENGINEERING LAB

A new graduate computer engineering laboratory, anchored by a \$329,000 computer donation from Harris Corp. of Melbourne, Fla., was unveiled here Nov. 11.

The Harris 800 system was formally presented to the University by Jack Hartley, president of the company. The system will be used exclusively for graduate teaching and research, says Wayne Bennett, head of the electrical and computer engineering department.

"This system can be used for research in areas such as computer architecture and computer communications," Bennett says. "It is also capable of radar image and signal processing, which makes it possible for us to become involved in projects dealing with military surveillance and aircraft navigation."

The system, with half a million bytes of memory, includes 10 terminals and can support up to 100. The Harris 800 will allow the University to enter new fields of research, many related to national defense, says ECE Prof. Jim Leathrum.

"Our immediate research will concentrate on developing software for similar computers at the Warner Robbins Air Force Base in Georgia," he says. "We also plan to look into human decision-making and how computers can participate in the process."

Engineering Dean Charles Jennett calls the Harris gift a wise investment in the future. "It has been estimated that American industry needs more than 1,200 engineering doctoral graduates each year," he says.

"But graduate programs that offer instruction on outdated equipment in obsolete laboratories aren't going to attract the best young minds. We're deeply indebted to the Harris Corp. for this gift, which puts our electrical and computer engineering graduate computing lab on par with the most modern industry lab."



GIFT OUTFITS NEW LAB -- Jim Leathrum, a professor of electrical and computer engineering, tries out the \$329,000 Harris 800 computer system donated by the Harris Corp. of Melbourne, Fla. The system will allow Clemson to enter new research fields, many related to defense.

BLOCK 'C' CLUB AND ATHLETIC DEPARTMENT
GIVE \$50,000 TO COOPER LIBRARY

Combining forces and resources, the Block "C" Club and the athletic department Nov. 12 announced a joint \$50,000 donation to the University libraries.

The money will be used to buy books and meet other critical library needs, says Joe Boykin, director of libraries.

"We are extremely grateful to the Block 'C' Club and the athletic department for the donation of \$50,000," Boykin says. "We think it is appropriate that Clemson recognize its top student athletes by having books placed in the libraries in their honor."

Block "C" consists of students who have earned varsity letters in sports.

"We're delighted to join with Block 'C' in making this initial gift," says athletic director Bill McLellan. "I hope we'll be able to continue this support in the future."

"The cornerstone of any university is its library, and I know we're all committed to making Clemson's library one of the best. All of us want Clemson to be a great university in every way."

MATH PROFESSOR NAMED
TO COLLEGE BOARD COUNCIL

Mathematics Prof. John Kenelly is among 12 educators selected from 2,500 member institutions to sit on the Council on Academic Affairs of the College Board.

As a member of College Board's policy-making arm, Kenelly will participate in an ongoing project to ensure that the board's most famous contribution to education, the Scholastic Aptitude Test, is a fair judge of a student's academic capabilities.



Kenelly

A concern about the quality of educational preparedness brought on by years of declining SAT scores prompted the College Board to take a fresh look at what students need to know before entering college, Kenelly says.

"For the first two years of our 10-year Education Equality project, the Board has been sponsoring dialogues all over the country to identify the basic academic competencies students need," he says.

"They came up with reading, writing, speaking and listening, mathematics, reasoning, studying and computing. Without these competencies, knowledge of history, science, language and all other subjects is unattainable."

Kenelly will also serve as chairman of the board's Mathematical Science Advisory Committee, which approves questions that determine a student's basic competency in that area.

Kenelly's association with the board dates back to his work as chief reader in mathematics for the Educational Testing Service from 1975-1979. He also chaired the advanced placement mathematics committee from 1979 until 1983 and is editor of the Mathematics Association of America's "Placement Test Newsletter."

During his 20 years here, Kenelly has served as department head and helped the University move from an unranked position to sixth place among Southern colleges in the number of entering students taking advanced placement tests.

In 1981, his efforts earned him the S.C. Council of Teachers of Mathematics award for outstanding contributions to mathematics.

Kenelly earned his bachelor's degree from Southeastern Louisiana University and doctorate from the University of Florida.

FOREST AND RECREATION ASSOCIATE DEAN
ELECTED PRESIDENT OF NATIONAL ASSOCIATION

Herbert Brantley, associate dean of the College of Forest and Recreation Resources, has been elected president of the National Recreation and Park Association.

He will preside over the executive committee of the 17,000-member organization of professionals and others who work in the field of recreation and park administration.

A native of Spring Hope, N.C., Brantley joined the faculty here in 1966 and was promoted to associate dean in 1970.



Brantley

He earned his bachelor's, master's and Ph.D. degrees from the University of North Carolina at Chapel Hill. He then taught and coached in the Raleigh public school system before joining N.C. State as an instructor in the department of recreation and park administration.

Brantley has earned numerous honors including the Distinguished Fellow Award of the Society of Park and Recreation Educators and the Harold D. Meyer Professional Award from the Southern Regional Council of NRPA.

He has been named Professional of the Year by the S.C. Recreation and Park Society and to "Who's Who in the South and Southwest."



The Clemson University Newsletter is published for Patricia Collins, an operations manager in personnel administration, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

MUSIC DEPARTMENT SPARKS FESTIVE MOOD
WITH THREE CHRISTMAS CONCERTS

The Clemson University Choir and Chorus would like to help you start the Christmas season off with a bit of musical glee. That's why they've prepared this year three concerts for your holiday listening enjoyment.

The Choir's Madrigal Singers will present, for the first time, two dinner-concerts that promise to whet your Christmas spirit with various forms of solo and small ensemble seasonal entertainment, including recorders and dances.

Continued on page 4.

Continued from page 3.

"All of this will be presented in as authentic a Renaissance style as possible," says choir director Willard Cottrell. "It should prove to be an exciting way to initiate your Christmas season."

The Madrigal Dinner-Concerts are planned for Dec. 2 and 3 at 7 p.m. in the Palmetto Ballroom. The cost will be \$10 per person, and the proceeds will go to the choral music department.

The festive music will move to Tillman Hall Auditorium Dec. 6, when the University Chorus presents its annual Christmas Concert at 8 p.m.

Cottrell says the concert will feature, briefly, each of the five ensembles from the music department. The music will range from Renaissance offerings and Latin Motets to traditional carols and contemporary selections.

Included on the musical agenda is a presentation by the Women's Glee Club of "Twas the Night Before Christmas," a composition by associate professor of music Edwin Freeman.

The concert will be free and open to the public. For more information on any of the concerts, call 656-3043 or 656-3453.

CANADA'S RESEARCH COUNCIL OFFERS POST-DOCTORATE ASSOCIATESHIPS

If you're planning to do research in engineering or in the sciences, you may want to consider applying for one of the Research Associateships offered by the National Research Council of Canada.

The council is offering about 50 associateships in 1984, but you will have to act with haste to beat the Dec. 15 application deadline.

To apply for an associateship, you must have either a doctorate in natural science or a master's in engineering, and you must be able to demonstrate an ability to perform original research of high quality in your chosen field.

If you become a research associate with National Research Council of Canada, you will be offered an appointment to its staff for a two-year term (renewable, not to exceed five years), and your salary will be commensurate with your experience.

As a guide, N.R.C.'s 1984 Ph.D. recruiting rate is \$28,914. Also, a travel allowance for both the researcher and the spouse is provided.

For more information on applying for the associateships, call 404/577-6810 or write the Canadian Consulate General Public Affairs Officer, 400 South Omni International, Atlanta, Ga., 30303.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff appear in the last Newsletter each month.

Accountancy

L. S. Cash (Asst Prof) gave a talk on "The ABCs of Corporate Liquidations" during a two-day seminar for CPAs, tax preparers and tax attorneys at the Hyatt Regency in Greenville Oct. 6. The seminar was co-sponsored by Standard Federal Savings and Loan of Columbia and the Clemson University Foundation.

J. D. Sheriff (Prof) was elected vice president of administration for the Anderson Area Chapter of the National Association of Accountants for the 1983-84 chapter year.

Ag Economics and Rural Sociology

B. H. Robinson (Prof and Hd) presented two invited papers:

-- "Agricultural Policy and Structural Change: The Southern Experience" at the Southern Regional Agricultural Outlook Conference in Atlanta, Ga., Sept. 28.

-- "Agricultural Policy: Long Range Problems and Needs" at the annual meeting of the Agricultural Research Institute in Washington, D.C., Oct. 5.

Prof. Robinson participated in the National Public Policy Conference in Zion, Ill., Sept 12-15 and completed his term as chairman of that committee.

C. S. Thompson (Prof) and P. Ganguly (Ecnmst, Md Dept of Econ & Comm Serv) presented a paper, "Technological Change and the Market for Allotments: Tobacco Production-Marketing Rights," and served as chairman of a session on technological change at the Atlantic Economic Society Conference in Philadelphia, Pa., Oct. 6-9.

Agricultural Engineering

M. J. Delwiche (Asst Prof) received an award for his paper, "Analysis of Instantaneous Milk Flow Rate Patterns," at the summer meeting of the American Society of Agricultural Engineers at Bozeman, Mont. The award was one of eight chosen as "outstanding" from 343 entries evaluated from the past year's technical presentations.

B. J. Griffin (Assoc Prof) participated in the annual meeting of the American Association of Housing Educators at Lincoln, Neb., Oct. 4-7.

Several members of faculty were invited to visit with cooperating researchers, participate in technical

meetings and attend an agricultural exposition in Israel, Sept. 29-Oct. 12.

While in Israel, the following presentations were made during the International Fruit and Vegetable Harvesting Symposium at the Shefayim Guest House in Kibbutz, Shefayim:

-- "Development of Fresh Market Peach Harvesting Systems" by C. E. Hood (Prof) and B. K. Webb (Prof and Hd).

-- "Development of Vegetable Harvesting Aids" by Prof. Hood, R. E. Williamson (Prof), C. M. McHugh (Vstg Instr), T. R. Garrett (Instr) and E. T. Sims Jr. (Prof, Hort).

-- "Development of a Green Onion Harvester" by Prof. Hood, Prof. Williamson, Prof. Sims, E. L. Loomis (Asst Prof, Hort) and A. Margolin (Technion Faculty).

F. A. Payne (Asst Prof) received a \$7,500 grant from the Binational Agricultural Research and Development fund for a feasibility study on cotton residue gasification. The study will be conducted in cooperation with Israeli researchers.

R. A. Spray (Prof) and F. J. Wolak (Asst Prof) attended a workshop, "Microprocessor Interfacing," at the University of Georgia in Athens, Ga., Aug. 29-30.

R. E. Williamson (Prof) and R. B. Dodd (Asst Prof) attended a session, "Robotics and Intelligent Machines in Agriculture," during the International Conference and Exposition on Robotics in Tampa, Fla., Oct. 2-4.

R. A. Abramovitch (Prof) gave a lecture, "Ring Transformations of Heteroaromatic N-Oxides," at the Colloque de Chimie Heterocyclique in Brussels, Belgium, Sept. 26-28.

Prof. Abramovitch attended the third "Regio-Symposium," organized by the

Continued on page 6.

Continued from page 5.

Universities of Basle, Freiburg and Mulhouse, in Achauinsland/Achwarzwald, Germany, Sept. 28-30.

Economics

N. K. Womer (Prof) and J. W. Patterson (Assoc Prof, Manag) published "Estimates and Testing of Learning Curves" in Journal of Business and Economic Statistics (October 1983).

Prof. Womer, who has been named an assistant editor of The Journal of Cost Analysis, chaired six tutorials and a special session on graduate military operations research education at the Military Operations Research Symposium in Dayton, Ohio, Sept. 27-29.

Electrical and Computer Engineering

H. V. Poe (Assoc Prof) co-chaired two seminars: "Design of Industrial Electrical Power Systems" at N.C. State University in Raleigh, N.C., Oct. 12-14, and "Motor Applications and Variable Speed Drives" here, Nov. 15-16.

Prof. Poe will speak at a seminar, "Grounding Electrical Systems," at the University of Wisconsin, Dec. 7-10.

Elementary and Secondary Education

R. K. Peden (Prof) coordinated the Child Abuse Prevention Conference for the College of Education held here Sept. 19.

Prof. Peden was elected to chair the Committee on Safety and Emergency Care at the American School Health Association Annual Convention in Louisville, Ky., Oct. 12.

B. M. Raetsch (Assoc Prof) conducted an inservice, "Implementing the State-wide Basic Skills Assessment Program," for Spartanburg District #5 teachers Aug. 23.

Prof. Raetsch was the university representative on the State Textbook Selection Committee for Secondary Developmental and Remedial Textbooks Sept. 26-29.

English

H. B. Bryant (Assoc Prof) read "Images of Ulysses in Dante, Homer and Tennyson" during the annual Mountain Interstate Foreign Language Conference at Virginia Polytechnic Institute in Blacksburg, Va., Oct. 13-15.

J. L. Idol (Prof) and D. B. Kesterson (N Texas State Univ) published "Wealth in Their Midst: Bill Nye and Thomas Wolfe on the Asheville Vanderbilts" in The Thomas Wolfe Review, 7, No. 2 (1983) 27-35.

Prof. Idol introduced R. S. Kennedy, the principal speaker at the unveiling of the Wolfe Memorial Angel, in Asheville, N.C., Oct. 3.

D. D. Moore (Vstg Instr) led a public discussion of George Orwell's 1984 for the Greenville Unitarian-Universalist Fellowship Oct. 26. He has been named coordinator, for the third year, of that group's monthly book discussions.

Moore published "Jesse Jackson's Inspiration," an interview, in The State Magazine (September).

M. H. Moran (Vstg Asst Prof) published a book, Margaret Drabble: Existing Within Structures, Southern Illinois University Press (1983).

The following participated in the meeting of the Popular Culture Associ-

ation in the South in Jacksonville, Fla., Oct. 7:

-- L. W. Rollin (Instr) read "Baryshnikov Meets Bowie: Androgyny and the Popularity of Ballet."

-- C. H. Sawyer (Prof) presented a paper, "She Died Last September -- But They Didn't Bury Her for a Year: Grace Kelly and the Grocery Store Tabloids, a Study in Over-Eager Journalism." She also chaired the session "The Image of Women in Advertising."

-- R. B. Rollin (Lemon Prof) read "Revising Genesis I: When Did Popular Culture Begin?" He was elected vice president/president-elect of the association.

Prof. Rollin has written an invited essay, "The Lone Ranger and Lenny Skutnik: The Hero as Popular Culture," for the first chapter in The Hero in Transition, edited by R. B. Brown and M. W. Fishwick (Bowling Green: Bowling Green University Popular Press, 1983).

E. P. Willey (Assoc Prof) published two poems: "Augury" in Sequoia and "Defoe" in Scriblerian.

Entomology, Fisheries and Wildlife

T. R. Adkins Jr. (Prof) is chairing the program committee for the 58th meeting of the Southeastern Branch Entomological Society of America to be held in New Orleans, La., Jan. 23-26.

J. W. Foltz (Assoc Prof) received a \$17,000 grant from E. I. DuPont de Nemours (Savannah River Laboratory) to study thermal tolerances of early life history stages of fishes.

Environmental Systems Engineering

T. M. Keinath (Prof and Hd) and

D. R. Yonge (Asst Prof, Wash State Univ) presented a paper, "The Effects of Non-Ideal Competition and Irreversible Adsorption on Multicomponent Adsorption Equilibria," at the 56th Annual Conference of the Water Pollution Control Federation in Atlanta, Ga., Oct. 5.

Prof. Keinath participated in a meeting of the USA National Committee of the International Association on Water Pollution Research and Control in Atlanta, Ga., Oct. 3.

Extension Home Economics

E. S. Wiggins (Asst Prof & Fam Life Spec) conducted a workshop on "Designing Computer Assisted Instruction" at the National Council on Family Relations in St. Paul, Minn., Oct. 12.

Forestry

G. R. Askew (Asst Prof) published "Two Methods for Evaluating Spatial Patterns in Naturally Regenerated Loblolly Pine Stands" in Forest Science 29 (3) 514-518.

D. L. Ham (Assoc Prof) received \$45,000 from the Forest Service Integrated Pest Management Program to conduct a project, "Integrated Pest Management in South Carolina, Phase II."

J. L. Haymond (Instr) published "Natural Regeneration Methods for Southern Pines" in Forest Farmer 43 (1) 9-11.

S. M. Jones (Res For) and B. A. Dunn (Assoc Prof) published "Endangered and Threatened Forest Plants of South Carolina" as Department of Forestry Bulletin No. 37.

Jones and R. Zahner (Prof) published

Continued on page 8.

Continued from page 7.

"Resolving the Type Location for Shortia galacifolia" in Castanea 48:163-173.

A. W. C. Lee (Asst Prof) received \$17,000 from the U.S. Forest Service to conduct research on "Utilization of Southern Hardwoods for Manufacturing of Cement Excelsior Board."

A. P. Marsinko (Asst Prof) and P. R. Howe (Former Grad Asst) published "Firewood Production and Retailing in Greenville, S.C." as Department of Forestry Research Series No. 37.

Prof. Marsinko and C. T. Ernst (Former Grad Asst) published "Participation in the Forestry Incentives Program in Berkeley and Orangeburg Counties, S.C." as Department of Forestry Research Series No. 38.

Prof. Marsinko and T. E. Wooten (Prof) published "Firewood Consumption in South Carolina" as Department of Forestry Research Series No. 36.

S. K. Nodine (Instr) presented a paper, "Current Usage of South Carolina Wood Products," to the Society of American Foresters S.C. Division annual meeting July 14-15.

G. E. Sabin (Assoc Prof) received a \$56,000 contract from the U.S. Forest Service to conduct two, three-week workshops for U.S. Forest personnel of the Sale, Layout and Harvesting Institute.

R. E. Schoenike (Prof) participated in a panel on terrestrial ecosystems at the First Glacier Bay Science Symposium sponsored by the National Park Service and Friends of Glacier Bay in Gustavus, Alaska, Sept. 24-25.

D. H. Van Lear (Prof) and V. J. Johnson (U.S. For Serv) published "Effects of Prescribed Burning in the Southern Appalachian and Upper Piedmont Forests: A Review" as Department of Forestry Bulletin No. 36.

History

J. L. Arbena (Prof) has been elected to a two-year term on the board of the South Carolina-Southwestern Colombia Partners, an affiliate of the Partners of the Americas program.

L. J. Greenspoon (Assoc Prof) has reviewed Introduction to the Critical Study of the Text of the Hebrew Bible by J. Weingreen in Biblical Archaeologist (Summer 1983).

Horticulture

E. T. Sims Jr. (Prof) presented an invited paper, "Problems Associated With Evaluating a Mechanized, Harvesting-Handling System for Fresh Market Peaches," at the International Symposium on Fruit, Nut and Vegetable Harvesting Mechanization in Kibbutz, Shefayim, Israel, Oct. 5-12.

Co-authors of that paper were C. E. Gambrell Jr (Assoc Prof) and the following from agricultural engineering: C. E. Hood Jr. (Prof), R. E. Williamson (Prof), B. K. Webb (Prof and Hd) and T. R. Garrett (Instr).

Housing

A. R. Boettner (Dir) coordinated a one-day workshop of the S.C. Housing Officers Association Conference, which met here Oct. 13. Members of the Housing staff assisted in coordinating the conference which drew Student Affairs personnel from 17 schools across the state. Anderson College co-hosted the event.

At that conference Matt Watkins and Gary Campbell (Asst Dirs) presented a program, "Responsibilities of Fraternity Living."



Andrew Strickland of Pendleton received the Custodian of the Month Award for October. He has been with the department since 1981.

Industrial Education

D. H. Pate (Prof) and V. B. Burkett (Assoc Prof) made two presentations:

-- "Microcomputers in Education" at the fall conference of the Carolinas Society for Training and Development in Columbia Oct. 14.

-- "Microcomputer Interfacing for Industrial Arts" at the Southeastern Industrial Arts Association annual meeting in Atlanta, Ga., Oct. 7.

Prof. Pate presented a review of "Industrial Education: State and National Trends" for the Pickens County Industrial Arts and Prevocational Teachers meeting Aug. 23.

C. D. Schmittou (Asst Prof) gave four presentations:

-- "Trade and Industry Teacher Education Program at Clemson University" at the S.C. Trade and Industrial Education Conference in Columbia July 25-27.

-- "Certification Course Requirements for New T&I Teachers" at the S.C. Department of Vocational Education Survival Workshop for New Teachers in Columbia Aug. 17.

-- "The Teacher Educators Role in Teacher Inservice and Certification" at the annual preschool inservice program for Georgetown County vocational teachers in Georgetown Aug. 25.

-- "Strategies on Developing Vocational Teachers" at the S.C. Vocational

Teacher Educator Planning Conference at Santee Oct. 6-7.

Industrial Engineering

C. R. Lindenmeyer (Prof) obtained \$5,000 in lab equipment donations from M. Lowenstein Corp., J. P. Stevens Co., Michelin Tire Corp., Ohio Gear, Chicopee, and Torrington Co.

Livestock-Poultry Health

T. H. Eleazer (Vet Path) presented a paper on "Avian Pox" at the Southeastern Poultry & Egg Associations' Poultry Health Short Course in Atlanta, Ga., Sept. 19-20.

Management

A. F. Czajkowski (Assoc Prof) published "Managerial Decision-Making in Establishing R & M Design Goals" in IEEE Transactions on Reliability (August 1983).

Prof. Czajkowski and A. Blackwell (Prof Furman Univ) conducted a workshop on military issues at a conference on "PEACEMAKING: A Vision for the Church" in Columbia Sept. 10. The conference was sponsored by the S.C. United Methodist Board of Church and Society and the S.C. Christian Action Council.

Prof. Czajkowski delivered the keynote address, "Peace and National Security," at the State Fall Conference of the American Association of University Women at Newberry College Oct. 14-15.

D. W. Grigsby (Asst Prof) and W. J. Bigoness (Assoc Prof UNC-Chapel Hill)

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published an article, "The Effects of Need for Achievement and Alternative Forms of Arbitration on Bargaining Behavior," in Aspiration Levels in Bargaining and Economic Decision Making (Springer Publications).

W. H. Hendrix (Assoc Prof) presented a paper, "An Employee-Directed Wellness Project: Early Findings From the OCHAMPUS Health Promotion Program," at the 111th Annual Meeting of the American Public Health Association in Dallas, Texas Nov. 13-17.

R. L. LaForge (Assoc Prof) and D. W. Kroeber, (James Madison Univ) published "A Program to Set Production Levels When Demand Varies" in Industrial Engineering, Vol. 15, No. 10, (October 1983) 20-26.

W. P. Sineath (Asst Prof), H. H. Hand (Prof USC) and W. E. Howle presented a paper, "An Empirical Application of Entrepreneur/Small Business Theory and Contingency Theory to Company Performance in the Small Business Sector," at the Southern Management Associations annual meeting in Atlanta, Ga., in November. The paper was selected for publication in the Proceedings.

Marketing

G. L. Waddle (Assoc Prof and Hd) presented a paper, "Product Quality and Business Performance," and chaired a session on marketing applications at the southeastern regional meeting of the Institute of Management Science Sept. 29-30.

Mathematical Sciences

W. F. Moss (Asst Prof) published a paper, "The Two-Dimensional Oscillating

Airfoil: A New Implementation of the Galerkin Method," in SIAM Journal of Numerical Analysis Vol. 20, No. 2 (April 1983).

R. D. Ringeisen (Prof and Assoc Hd) and M. J. Lipman (Indiana-Purdue Univ at Ft Wayne) published a paper, "Cohesion and Stability in Graphs" in Discrete Mathematics 46 (1983) 191-198, Elsevier Science Publishers B.V. (North Holland). The work was partially supported by the EPSCoR NSF Grant.

Parks, Recreation and Tourism Management

R. H. Becker (Assoc Prof) presented three seminars while serving as a 1983 Visiting Scholar at the University of Alaska:

-- "Improving Linkages Between University Research and Public Agencies: Rethinking the Role of the University."

-- "Innovative Research Funding/Management to Reduce Program Dependence on General Revenue Funds."

-- "A Strategy for the Initial Scoping of Environmental Impact Statements."

R. L. Howell (Asst Prof) presented "Tourism in South Carolina in the Year 2000" at the World Future Society's seminar on "Work and Play in the Year 2000" in Columbia Sept. 22.

F. A. McGuire (Asst Prof) had an article, "Leisure Co-Participant Preferences of the Elderly: Age Homogeneity Versus Age-Heterogeneity," accepted for publication by Leisure Sciences.

Prof. McGuire had a chapter, "Constraints on Leisure Involvement in the Later Years," published in the book Activities and the "Well Elderly." The chapter was previously published as an article in Activities, Adaptation and Aging.

Prof. McGuire made three presentations:

-- "Is There a Treatment for Old Age?" at the annual conference of the Florida Recreation and Park Association in Jacksonville, Fla., in September.

-- "Cost Effectiveness Analysis in Therapeutic Recreation," at the 1983 National Park and Recreation Association Conference in Kansas City, Mo., in October.

-- "Factors Influencing Leadership Preferences of the Elderly: Perceived Personal Competence Versus Perceived Leader Competence" at the 1983 Society of Park and Recreation Educators Annual Leisure Research Symposium in Kansas City, Mo., in October.

Physics and Astronomy

J. R. Manson (Prof) published the following papers:

-- "Scattering of Low Energy Atoms by Surfaces: The Helium-Copper Systems" in Israel Journal of Chemistry 22 (1982) 298, written with G. Armand, J. Lapujoulade, J. Perreau and B. Salanon, all from the Centre d'Etudes Nucleaires de Saclay in Paris, France.

-- "Band Structure of an Atom Adsorbed on a Surface; Application to the He/Cu (113) System" in Surface Science 126 (1983) 681, written with G. Armand.

-- "An Exact Iterative Solution of the Atom-Surface Scattering Problem for Realistic Potentials" in Surface Science 119 L299 (1982), written with G. Armand.

-- "Scattering of Neutral Atoms by a Periodic Potential: the Morse Corrugated Potential" in Journal de Physique 44, (1983) 473, written with G. Armand.

R. C. Turner (Assoc Prof) presented a paper on "Free Radical Decay Kinetics in PMMA Bone Cement" at the Southeastern

Magnetic Resonance Conference in Johnson City, Tenn., Oct. 7.

Prof. Turner presented a talk on "ESR in Polymers" for a polymer stability review meeting at Celanese Fibers Operations Research Lab in Charlotte, N.C., Sept. 15.

Plant Pathology and Physiology

L. W. Baxter Jr. (Prof), S. G. Fagan (Ag Sci Asst) and P. A. Mitchell (Ag Aide) published "Observations on Camellias" and "Dieback of Camellia Caused by *Glomerella Cingulata*" in The Camellia Journal (August 1983).

Prof. Baxter, Fagan and W. Witcher (Prof) published "Camellia Seedpod Gall" in The Camellia Journal (August 1983).

S. A. Lewis (Prof) is collaborating with Fulbright Scholar-in-Residence I. K. A. Ibrahim, (Prof Plnt Nmtlgy, Alexandria Univ, Egypt). They are studying the development of Meloidogyne arenaria as a widespread pathogen in South Carolina and in the Southeast. They will also be evaluating biological control of Meloidogyne spp. on tobacco and soybean.

J. P. Krausz (Assoc Prof) and B. A. Fortnum (Asst Prof Pee Dee Exp Sta) published "An Epiphytotic of Diaporthe Stem Canker of Soybean in South Carolina" in Plant Disease 67 (10) 1128-1129.

O. W. Barnett (Prof) and Z. Xu (Former Grad Asst) published "A Virus Causing Peanut Mild Mottle in Hubei Province, China" in Plant Disease, Vol 67 (9) 1029-1032.

Political Science

C. W. Dunn (Prof and Hd) presented a

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paper, "American Political Theology: A Theoretical Model," at the University of North Carolina Conference on Religion and Politics in Asheville, N.C., Sept. 27-30.

Prof. Dunn has been named to the 1983-84 Nominating Committee of the Southern Political Science Association.

M. A. Morris (Assoc Prof) presented a paper in Spanish, "Arms Production and Economics Security in Latin America," at the Latin American Studies meeting in Mexico City, Mex., Sept. 29-Oct. 1.

Psychology

R. A. Marcon (Asst Prof) and R. C. Coon (LSU) published "Communication Styles of Bilingual Preschoolers in Preferred and Nonpreferred Languages" in Journal of Genetic Psychology, 142 (1983) 189-202.

N. R. Schultz (Assoc Prof) participated on a workshop panel, "Aging-Dilemmas that Remain," sponsored by the S.C. Psychological Association in Myrtle Beach Oct. 1.

Prof. Schultz presented a paper, "A Longitudinal Analysis of Hypertension Effects on WAIS Performance," written with Elias and Robbins (Syracuse), at the 36th Annual Meeting of the Gerontological Society of America in San Francisco, Calif., Nov. 19.

Sociology

S. Kenig (Asst Prof) has been appointed to the Southern Sociological Society's 1984 Committee on the Status of Women.

C. M. Sieverdes (Assoc Prof) co-authored an article, "Institutional Games Played by Confined Juveniles," in Adolescence, Vol. XVIII, No. 71, (Fall 1983) 609-617.

Undergraduate Studies

J. L. Stevenson (Prof and Dir Hnrs Prog) presented two invited addresses, "Dealing With Difficulty" and "An Affirmation Life," to the American Camping Association, Southeastern Section, at the Outdoor Laboratory here Sept. 29-30.

University Union

W. Mandicott (Prog Dir) presented a session, "Programs of a Novel Nature," at the Region V Association of College Unions International Regional Conference Nov. 4-6. ACU-I is an educational organization of college union professionals, student leaders and associate business members.

Mandicott organized the publication of the second edition of a map book, NACA Regional Maps, which will be used by NACA members to route college entertainment attractions.

DEC 1 1983

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Dec. 2-9

WORKSHOPS, SEMINARS AND CONFERENCES

- 6-7 Conference: 10th Annual Clemson Dairy Conference. Sponsored by dairy science department and Extension Service, Clemson Ramada Inn, 9 a.m.-10 p.m, Dec. 6, and 8 a.m.-12 noon, Dec. 7. Open to public. Registration fee. Call 656-3231 for more information.
- 8 Workshop: "Quality Enhancement Systems." Sponsored by Professional Development. Call 656-2200 for more information.

LECTURES AND EXHIBITS

- 2-16 Architecture Thesis and Terminal Project Reviews and MFA Thesis Review and Exhibit. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 2-31 Annual Student/Faculty Art Sale. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.
- 7 English Hour lecture -- "'Female Poets of America'" by Robert Hill, an associate professor of English. Sponsored by English department, Strode Tower Lounge, 8 p.m. Open to public. Free. Call 656-3081 for more information.

DRAMA AND CONCERTS

- 2-3 "An Evening of One Acts." A Clemson Players' production, Daniel Annex, 8 p.m. Students free, faculty and staff \$1, others \$2. Open to public, limited seating. Call 656-2476 for reservations.
- 2-3 Madrigal Dinner-Concert, an evening of traditional Christmas music featuring the Madrigal Singers of the Clemson University Choir. Sponsored by music department, Palmetto Ballroom, 7 p.m., \$10. Call 656-3043 for more information.

CU EVENTS (Cont.)

- 6 Clemson University Chorus and Choral Ensembles Christmas Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 2-3 "The Toy." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Admission \$1.50 with University I.D. Call 656-2461 for more information.
- 4 "Willy Wonka and the Chocolate Factory." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.

OTHER EVENTS

- 3 Christmas shopping trip to Lenox Square, Atlanta, Ga. Sponsored by University Union, 9 a.m.-9 p.m., \$8. Sign up at Union Information Desk, or call 656-2461 for more information.
- 3 Declamation contest. High school students recite poetry in different languages for awards. Sponsored by languages department, Daniel Hall, 8:30 a.m.-1 p.m.; awards ceremony, Tillman Hall Auditorium, 1-3 p.m. Open to public. Free.
- 3 Basketball. South Carolina, men and women, 8 p.m.
- 5 Carolina Journal. Quattlebaum Professors of Engineering Frank Paul and John Luh talk about robotics. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 6-7 Christmas at Hanover Candlelight Tours. Early American Christmas decorations displayed by candlelight. Sponsored by Spartanburg Committee of Colonial Dames, Clemson Alumni Association, and University Relations, 5-9 p.m. Refreshments. Open to public. Free.
- 6-14 Christmas at Hanover Historic Home Tour. Experience Christmas decorations of Colonial America at Hanover House built in 1716 by French Huguenots in South Carolina low country. Sponsored by Spartanburg Committee of Colonial Dames and University Relations, Tuesday-Saturday 10 a.m.-noon, 1-5:30 p.m.; Sunday 2-6 p.m. Closed Mondays. Open to public. Free. Call 656-2061 for more information.
- 7 Reading Day.

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the company to have a clear and concise system in place to ensure that all data is properly recorded and stored.

In the second section, we explore the various methods used to collect and analyze data. This includes both qualitative and quantitative approaches, as well as the use of statistical software to process large datasets.

The third part of the paper focuses on the results of the data analysis. We present several key findings that highlight the trends and patterns observed in the data, as well as the implications for the company's future strategy.

Finally, we conclude the paper by summarizing the main points and providing recommendations for further research. We believe that the findings presented here will be valuable for the company as it continues to grow and evolve.

The data collected over the past year shows a significant increase in sales volume, particularly in the online market. This is likely due to the company's aggressive marketing campaign and the growing popularity of its products.

One of the most interesting findings is the high level of customer satisfaction reported in the survey. This suggests that the company's products and services are meeting the needs of its target market, which is a positive indicator for future growth.

However, there are also some areas where the company needs to improve. For example, the survey results show that a significant number of customers are dissatisfied with the quality of customer service. This is a concern that needs to be addressed as soon as possible.

In addition, the data analysis reveals that the company's pricing strategy is not competitive enough. This could be a major factor in why the company is losing market share to its competitors. We recommend that the company consider adjusting its prices to better align with the market.

Overall, the findings of this study provide a comprehensive overview of the company's current performance and identify key areas for improvement. We believe that by addressing these issues, the company can achieve its long-term goals and maintain its position as a leader in the industry.

We would like to thank the company's management and staff for their cooperation and support throughout the research process. We also appreciate the feedback provided by the customers who participated in the survey. Their input is invaluable in helping us to better understand their needs and preferences.

December 7, 1983
Vol 23 No 16 (14)

DEC 12 1983

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



COMPUTER SCIENCE GETS NEW DOCTORAL PROGRAM

The S.C. Commission on Higher Education has approved a doctoral degree program in computer science to begin here in the fall semester of 1984.

A. J. Turner, head of computer science, says there is a shortage of computer scientists with Ph.D. degrees.

"The shortage exists nationwide for research and development in industry and for teaching in universities" he says. "This program will help fill those needs."

The new doctoral program will also strengthen the University's research program in computer science, Turner says, bringing it to the level of other departments in the College of Sciences.

Sciences Dean Henry Vogel says a doctoral program in computer science is well within the scope of Clemson's mission, "which is to strongly support all areas of science and technology."

An initial enrollment of six to eight students is projected for the program and one new faculty member for each of the next three years.

WANT TO LIVE A LONG, HEALTHY LIFE? WELLNESS PROGRAM TO OFFER YOU HELP

The comic strip character "B. C." once made a pilgrimage to his guru to discover the secret of a long, healthy life. The guru, after withdrawing to contemplate the answer, returned with

this carefully constructed piece of advice: "Don't die."

Unlike comic strip characters, you can count on dying. But soon, perhaps by July of 1984, you'll also be able to count on getting some help with learning how to enhance the quality of the years you are given to live.

Early this semester, President Bill Atchley charged a 19-member Wellness Committee with developing a comprehensive health promotion program to help faculty and staff members learn how to take responsibility for their own health and well-being.

Committee chairman Ron Herrin, director of payrolls and employee benefits, says the panel is moving right along with the first stage in developing the wellness program.

And one phase of that first stage includes the study of existing health programs.

Committee members have visited Greenville's Liberty Life Insurance Company to study its health program, and in November the wellness coordinator from Blue Cross/Blue Shield visited the committee here to discuss how that company carries out its wellness program.

"We plan to look at programs throughout the country," says Herrin, "not just to duplicate them, but to come up with a program tailored to our needs."

A crucial factor in the success of any institution's wellness program is the support of top administrators, and

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Continued from page 1.

the committee has that support here, Herrin says.

In fact, the president, to underscore his support of the program, defined for the committee a desired outcome that goes beyond the primary goal of promoting healthier lifestyles for employees and the resulting increased productivity.

The committee, Atchley said in his charge, should have as a secondary goal "the development of a program that can serve as a model for other state agencies throughout South Carolina."

Given the varied expertise here in health education, recreation, and behavior modification, Herrin says, he feels optimistic that such a model program can be developed.

There is, of course, the additional goal of containing, or perhaps even reducing, costs related to health care among faculty and staff.

"One heart attack prevented could pay for a wellness program for one year," says Herrin. "The only real cost containment is in the prevention of health problems, and prevention is a primary goal of the program."

Upon completing its study of existing wellness programs, the committee will begin to develop a program to suit the needs of employees here and will determine whether a full-time or a part-time director will be necessary.

Atchley has asked that the final plans for the program be delivered to the President's Council by March 1, 1984, so that recommendations can be implemented by July.

If you have thoughts or suggestions on the type of wellness program you would like to see, call Ron Herrin at 656-2000; the committee's co-chairman, Herlie Hendrix, at 656-2011; or the

chairman of any of the following sub-committees:

-- Diet and Nutrition, Mildred Cody, an assistant professor of home economics 656-3268;

-- Physical Fitness, Bill Wooten, student program advisor, University Union, 656-2460;

-- Stress Management, Laoretta Park, an associate professor of psychology, 656-3210;

-- Health Screening, Frederick Sias Jr., Bowen professor of electrical and computer engineering, 656-3375;

-- Public Relations and Information, Dick Simmons, assistant director of personnel, 656-2426.

FACULTY/STAFF MEETING SCHEDULED FOR DEC. 19

The faculty and staff will meet in a general session at 10 a.m. Monday, December 19, in Tillman Hall Auditorium.

WHAT'S YOUR APPRAISAL OF EPMS?

The Employee Performance Management System is five months old now, and the Personnel Division wants to know how you think the new procedures are working.

In a memo sent before Thanksgiving to all supervisors, assistant personnel director Dick Simmons asks for comments on four specific EPMS points:

-- How effective is the "Performance Objectives" section of the form?

-- How effective is the "Planning Stage" section of the form?

-- Are you using the "Planning Stage" during the year?

-- Is the EPMS procedure serving a useful communication function between the employee and the supervisor?

Simmons adds, however, that comments need not be limited to those four areas. Rather, the Personnel Division is looking for "any major concerns, areas of difficulty, suggestions for improvements of procedure or forms, or ideas" that you might have -- whether or not you're a supervisor.

Comments must reach the Personnel Division by Dec. 19 to be included in an evaluation process currently under way that will affect decisions related to merit salary increases in 1984-85.

"By the end of January, how we would implement merit salary increases proposed for the next fiscal year will have to be considered," Simmons says.

If there is any merit money in the state's 1983-84 budget, EPMS ratings will affect how that money is distributed.

This is your chance to have your say



The Clemson University Newsletter is published for Lance McKinney, a cinematographer in the communications center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

about the performance appraisal system. Address your comments to Simmons in the Personnel Division.

If you have any questions or if you are a supervisor who did not get a copy of Simmons' memo, call him at 656-2426.

RETIREMENT PLANNING MEETINGS SET FOR WEDNESDAY, JAN. 18

The Personnel Division will hold two retirement planning meetings Wednesday, Jan. 18, in the Senate Chambers of the University Union complex for employees planning to retire by July 1, 1984.

Potential retirees should attend either the 9 a.m. meeting or the 1:30 p.m. meeting. The same information will be provided during each session.

Representatives of the S.C. Retirement System, the Social Security Administration and the University's Payroll and Employee Benefits Office will be on hand to explain retirement procedures.

Individual conferences with counselors from the Retirement System won't be held, says personnel assistant Debbie King, but benefit estimates will be distributed at each meeting.

Also, counselors will be available after each session to answer individual retirement questions.

Requests for benefit estimates must be made to the Personnel Division by Dec. 30 to ensure that the estimates are ready by the meeting date.

If you've already received a benefit estimate from the Retirement System, you should have that information with you at the meeting you attend, says King.

The meetings are open to any employee interested in retirement matters. For

Continued from page 3.

more information, call King or Dick Simmons at 656-2426.

Personnel provides new retirement-related service

In other retirement-related news, the Personnel Division next week will launch a new service: the pre-retirement education seminar.

Phyllis Gardner of the S.C. Retirement System will present the two-day, by-invitation-only program covering topics like Social Security benefits, retiree insurance, financial planning, wills and estate planning, and health.

The seminar will be the first of several planned for the campus, says Debbie King of the Personnel Division.

"Pre-retirement education seminars are designed for employees who are within 15 years of retirement," says King. "During these seminars, information of interest to retirees is presented, and options and ideas are discussed.

"This helps employees realize that retirement is a real part of their future -- one that they can make more enjoyable by taking steps now to prepare."

Earlier this year, the Personnel Division conducted a survey to determine the degree of employee interest in pre-retirement seminars.

Response was favorable, says King, so the division began planning the first session, which will be limited to 25 participants, who were selected based on the order in which survey responses were received.

Other respondents will be contacted later, as dates for future seminars become firm.

"One of the most frequent comments heard from our retirees is that they

wish they had started preparation for retirement earlier in their careers," says King. "That's why we are so excited that a program such as this one is finally available to our employees.

"It's never really too early to begin retirement planning, and the earlier employees begin, the greater the chances that retirement will be enjoyable with few surprises and disappointments."

If you have any questions or comments about pre-retirement planning, call King at 656-2426.

ALUMNI PROF HONORED FOR CONTRIBUTIONS TO ENVIRONMENTAL ENGINEERING

Gene Rich, Alumni Professor of Environmental Engineering, has received the Rudolph Hering Medal from the American Society of Civil Engineers.

The medal, given annually to the author contributing most to the environ-



COMPLETE SURPRISE -- "What a surprise!" says Gene Rich, Alumni Professor of Environmental Engineering, on receiving the Rudolph Hering Medal from the American Society of Civil Engineers. Presenting the award during the society's annual meeting in Houston is John H. Wiedeman, president of ASCE.

mental engineering profession, was awarded to Rich in October at the society's meeting in Houston.

At the meeting he presented his award-winning paper, "Design Approach to Dual-Power Aerated Lagoons," which discusses a cost-effective lagoon system that he developed.

A former dean of engineering and head of the civil engineering department, Rich is the author of four textbooks and more than 30 other publications.

He has lectured in the Peoples' Republic of China and is a trustee of the American Academy of Environmental Engineers.

Rich received his bachelor's, master's, and doctoral degrees from Virginia Polytechnic Institute. Before coming to Clemson, he taught at VPI and the Illinois Institute of Technology.



Wilson

She is a member of the state and the regional Association of Student Financial Aid Administrators and of the 1983-84 Financial Aid Awareness Committee.

She succeeds Ray Davis, who left to take a position in the College Work/Study Program at the University of South Carolina.

SECURITY OFFICERS SAY YOU CAN HELP CREATE A SAFER CAMPUS ENVIRONMENT

Uniforms don't always portray a true image. Take the police uniform, for instance.

"When people see us walk into their office," says public safety officer Bill Cromer, "they say, 'What's wrong?' Well, something doesn't always have to be wrong. We're often there to help prevent something from going wrong."

Crime prevention is the number one mission of the University police department, and to carry out that mission, the department has developed several services designed to help create a safer environment for employees and students.

Safety, however, starts with the individual, says public safety investigator Mac McCrary, and the secret to crime prevention can be simply put: "Make it tough for anyone to commit a crime."

Continued on page 6.

FINANCIAL AID OFFICE GETS NEW ASSISTANT DIRECTOR

Miriam Wilson, formerly a counselor in the financial aid office, has moved up to assistant director of that office.

As assistant director she will supervise the University's grant, loan, student employment, and scholarship programs. Funding for these programs will total approximately \$10 million this year.

Marvin Carmichael, director of financial aid, says Wilson is "highly regarded by her professional peers and brings to the position considerable technical experience that will allow immediate effectiveness in program administration."

Wilson earned an associate of arts degree from North Greenville Junior College and a bachelor's degree in business administration from Furman University. She came here in 1972 and joined the financial aid office in 1979.

Continued from page 5.

"In every crime there are three elements," says McCrary. "There's the motive, the means and the opportunity. We can't do anything about the first two, but we can the last one. We can try to take away the opportunity."

To do that, the department is increasingly turning to service programs that, like the state's crime prevention program, rely on the cooperation of individuals willing to play a greater role in protecting themselves.

One such program is S.T.O.P. (Security Tips for Office Personnel), a campaign the department is waging to alert faculty and staff members to ways to make it tough for thefts to occur.

Here are some S.T.O.P. hints from the security department:

-- Lock your office when you leave, even if you'll only be gone for a minute.

-- Keep your purse, wallet and other valuables in a desk or filing cabinet.

-- Immediately report to the public safety department any suspicious person loitering in your area.

-- Report all crimes, no matter how minor they may seem, to the public safety department.

-- If you have to work at night, try to avoid working alone; keep outside doors to your building locked; walk with other employees to and from your car.

-- If you're entrusted with a key to a specific area, never loan it to anyone, as keys can be easily lost, stolen or duplicated.

Should you have office or personal property lost or stolen, previous registration of that property under the Operator Identification Program could mean recovery. More than 100,000 items of University property have been registered.

The program works like this: A National Crime Information Computer (NCIC) number is assigned to the University. Members of the student police force engrave University property, such as typewriters and audio visual and lab equipment, with this NCIC number.

The name, model and serial number of the engraved item, along with the name of the person responsible for the item, are entered into police department files. If stolen, the item can more easily be traced under this computer identification system.

When items in a building have been engraved, an Operation I.D. sticker is placed on the entrance doors to indicate that the property inside is registered. Such stickers are enough, sometimes, to deter a would-be thief, says Cromer.

"But please," he says, "don't put up those stickers unless you have engraved items inside. If you do, they will not mean anything and people won't take the program seriously."

Cromer and McCrary recommend that each employee get an individual identification number to mark his or her personal property.

"We can get it for you here," says McCrary, "and the number will go with you no matter where you live. We will do the engraving, or we will let you borrow the engraver and do it yourself."

In addition to Operation I.D., the department offers several other services to help you take care of yourself.

These include seminars on crime prevention; security surveys for offices and departments; bicycle and hubcap registration; bank escorts for special events; medical transportation; and a rape prevention film.

"Since Clemson is not a high crime area," says McCrary, "people feel safe here and tend to think they don't have to take precautions. But it's far eas-

ier to take the precautions, to remove the opportunity for crime, than to have to deal with the results of a crime."

Despite all precautions, however, thefts do occur. And, to catch the thief, the security staff definitely needs your help.

"If you have a theft, please report it as soon as possible after it happens," says McCrary. "We can't do anything about a theft unless it is reported."

To find out more about the services offered by the police department, call 656-2222.

TICKETS AVAILABLE NOW
FOR PRESIDENTIAL BALL

It's not too early to reserve your place at the Presidential Ball on Jan. 27, says Steve Melsheimer, president of the University Club.

Because of the limited number of

reservations available, he suggests that you purchase your tickets early.

For more information on the ball, or to buy that ticket now, (\$10 per person) call the Alumni Center at 656-2345.

PROVOST RELEASES SALARY REPORT
FOR FALL SEMESTER 1983-84

Provost David Maxwell has released his faculty salary report for the fall semester 1983-84. The report appears on the next five pages.

The report includes collegiate and University maximum, minimum, median and average salaries for male and female faculty members by rank and for librarians.

For categories with less than five members, only the numbers of members are reported. These numbers are shown in parentheses and are not included in the faculty totals. Part-time and visiting faculty members are not included in this report.

CLEMSON UNIVERSITY
FACULTY SALARY REPORT - FALL SEMESTER 1983-84

(Nine-Month Basis)

PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
Male					
Ag Sciences	97	50,717	25,518	36,040	36,017
Architecture	16	43,422	31,360	37,479	37,656
Education	15	42,343	29,286	35,440	35,269
Engineering	48	55,346	36,619	43,143	43,426
For & Rec Res	14	43,560	30,089	36,491	37,304
Commerce & Ind	22	49,840	33,300	40,575	41,002
Liberal Arts	20	49,143	25,130	34,099	35,749
Sciences	59	53,800	30,210	39,550	39,933
Female					
Academic Affairs	(1)				
Ag Sciences	(1)				
Education	(2)				
Commerce & Ind	(1)				
Nursing	(1)				
Sciences	(4)				
TOTAL	291 (10)	55,346	25,130	38,167	38,504

ASSOCIATE PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
Male					
Ag Sciences	65	39,360	22,893	28,034	27,825
Architecture	17	34,000	23,292	31,238	29,922
Education	15	32,881	26,036	28,476	28,500
Engineering	35	41,016	27,704	33,731	33,860
For & Rec Res	15	33,540	24,865	29,453	29,835
Commerce & Ind	25	39,811	26,612	34,769	34,429
Liberal Arts	33	33,100	21,867	26,000	26,283
Sciences	42	40,000	21,824	27,591	29,123
Female					
Ag Sciences	7	27,348	23,662	25,817	25,758
Architecture	(1)				
Education	(3)				
For & Rec Res	(1)				
Commerce & Ind	(3)				
Liberal Arts	8	28,991	21,420	27,000	25,489
Nursing	(3)				
Sciences	(4)				
	262 (15)				
TOTAL		41,016	21,420	28,823	29,437

ASSISTANT PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
Male					
Ag Sciences	28	32,035	16,984	24,940	24,501
Architecture	(2)				
Education	(4)				
Engineering	18	32,882	26,031	30,331	30,007
For & Rec Res	12	24,725	19,948	22,972	22,785
Commerce & Ind	26	36,000	22,889	30,057	29,385
Liberal Arts	36	25,569	17,232	21,000	21,028
Sciences	20	34,750	17,885	24,200	25,653
Female					
Ag Sciences	10	25,495	19,582	23,517	22,966
Architecture	(2)				
Education	(2)				
Engineering	(1)				
For & Rec Res	(1)				
Commerce & Ind	(3)				
Liberal Arts	17	25,322	19,000	20,000	20,730
Nursing	19	31,672	18,162	22,581	24,072
Sciences	(3)				
TOTAL	186 (18)	36,000	16,984	23,517	24,586

INSTRUCTORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
Male					
Ag Sciences	8	21,539	16,144	19,669	18,706
Education	(1)				
Engineering	(1)				
For & Rec Res	(1)				
Commerce & Ind	(2)				
Liberal Arts	9	23,683	13,000	15,831	17,158
Sciences	(2)				
Female					
Ag Sciences	(3)				
For & Rec Res	(1)				
Commerce & Ind	(1)				
Liberal Arts	9	14,350	13,000	13,000	13,388
Nursing	(2)				
Sciences	5	23,700	13,341	20,848	19,126
TOTAL	31 (14)	23,700	13,000	16,144	16,780

LIBRARIANS

	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
	Male				
Library	(3)				
	Female				
Library	7	22,229	15,603	19,325	18,778
TOTAL	7 (3)	22,229	15,603	19,325	18,778

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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Dec. 9-16

EXHIBITS

- 9-16 Architecture Thesis and Terminal Project Reviews and MFA Thesis Review and Exhibit. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 9-31 Annual Student/Faculty Art Sale. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.

OTHER EVENTS

- 9 Clemson Chapter of AAUP meeting and banquet with President Bill Atchley speaking on "What Faculty Should Know About Their President." Clemson Holiday Inn, 6:30 p.m. All faculty invited. Tickets available at the door.
- 9-16 "Christmas at Hanover," historic home tour. Experience Christmas decorations of Colonial America at Hanover House. Sponsored by Spartanburg Committee of Colonial Dames and University Relations, Tuesday-Saturday, 10 a.m.-noon, 1-5:30 p.m.; Sunday 2-6 p.m. Open to public. Free. Call 656-2061 for more information.
- 10 Basketball: The Citadel, here, men, 7:30 p.m.
- 12 Carolina Journal: Paul Ceruzzi, an assistant professor of history, talks about the history of computers. Sponsored by University Relations, Channel 29, S.C. ETV, 7:30 p.m. Call 656-2061 for more information.
- 14 Workshop: "U.S. Geological Survey Maps and Defense Mapping Agency Maps," with David Mcquillan, USC map librarian. Sponsored by R. M. Cooper Library, 2-3 p.m. Free. To preregister or for more information call 656-3024, ext. 34.

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UNIVERSITY GETS GRANT TO HOST BI-NATIONAL WORKSHOP IN BOMBAY

Physics and astronomy professor Amulya Laskar is starting 1984 off with a big bang in Bombay.

In November, Prof. Laskar received notice from the National Science Foundation that he had been awarded a \$43,623 grant to organize a conference on "Diffusion in Solids."

So, come January, he, along with 60 other U.S. and Indian physicists, chemists and engineers will meet at the Bhaba Atomic Research Centre in Bombay, India, to review research advances and the latest trends in both experimental and theoretical diffusion.

Diffusion of solids is a technology that allows scientists to create new materials by bringing together two different metals at extremely high temperatures.

"Understanding this mechanism is vital to the continued development of semiconductors, electrolytes and many other challenges of modern technology," says Laskar.

"Intensive research activities in this area have been going on both in India and in the United States for many years, but there has been no direct transfer of information."

Sessions at the workshop will cover state-of-the-art diffusion techniques, fields that look most promising for future research, and specific areas where collaborative programs could benefit both countries.

"Traditional scientific exchanges have involved the United States and European countries," he says, "but there is now a greater effort in this country to increase interaction with non-European scientists."

At least 15 U.S. scientists representing Clemson, the University of Illinois, Argonne National Laboratory, IBM, the University of North Carolina, Oak Ridge National Laboratory, Microelectronics Center of North Carolina, the University of Virginia and Rensselaer Polytechnic Institute, will participate in the workshop.

Proceedings of the conference will be published as a book by the Academic Press with Laskar as co-editor.

CRISIS LINE -- A LISTENING EAR FOR THOSE WHO NEED SOMEONE TO TALK TO

Every day he switches on the telephone answering service half-hoping he won't hear a message. A message means that someone undergoing a personal crisis called out for help and received, instead, a recording.

As director of the Clemson Area Crisis Line, Merv White, an associate professor of sociology, is particularly troubled when he learns that somebody dialed 654-7080, the Crisis Line number, and nobody was on the line to help.

"Missing these calls is unfortunate," he says. "Most of those who call [and get the answering device] leave no

Continued on page 2.

Continued from page 1.

message and do not call back during the hours of operation."

Although this kind of caller reaction is in keeping with the nature of crises, he says, it still does not soften the impact of having to live through a crisis alone.

"Furthermore," he says, "it doesn't soften the impact of hearing a caller ask, 'Where are you when I need you?' Or to hear a caller sob uncontrollably through a 30-second message on the answering device."

Because personal crises are no respecter of the 9-to-5 workday, around-the-clock voluntary telephone counselors is one goal White has for the Crisis Line, which he, as a member of the Clemson Area Youth Council, helped to develop to serve the Clemson community.

Presently, 35 trained volunteers, including members of faculty and staff, students, and citizens of the community, staff the Crisis Line office daily between 6 p.m. and midnight.

In the first 18 months of the service, which began in January 1982, 88 calls were received from 59 persons. White says the average now is two or three calls each week, but the number increases to maybe four or more around major holidays, especially Christmas.

The reasons for calling range from substance, spouse and child abuse to unemployment, medical problems and thoughts or threats of suicide.

"Depression and loneliness head the list," says White, "people just wanting someone to talk to. Few calls are actual life-or-death emergencies."

To prepare volunteers for this service, White directs one formal eight-week training session each semester. In the sessions, trainees hear lectures from visiting professionals in the field of

counseling, engage in role-playing, and observe actual phone counseling.

"We train them to identify the nature of the crisis," says White, "and what perpetrated the crisis. They assess the caller's skills for handling the problem, and, if appropriate, help the caller identify alternatives to their situation.

"What we do is train the volunteers to help get the callers through their immediate crisis and, if necessary, refer them to a professional counselor or an appropriate agency for further help."

White says the Crisis Line has proved successful, going from a weekend-only operation in its beginning to a daily service now. Twenty-four hour staffing, plus a part-time, paid director will further enhance the project, he says.

But perhaps the greatest measure of success lies in the comments from the callers.

"Almost invariably at the end of a call," says White, "people will say, 'Thank you, this has really helped.'"

And this is the response White and his colleagues want to hear. This, rather than, "Where are you when I need you?"

Names of volunteers and the location of the office remain confidential, says White. But if you would like more information, call him at 656-3238.

ENDOWMENT TO HONOR AG ENGINEERING PIONEER

An endowment to provide graduate fellowships and undergraduate scholarships in agricultural engineering has been established in honor of George B. Nutt, sometimes called the "Father of Agricultural Engineering" in South Carolina.

Nutt served as the University's first agricultural engineering department head, a position he held for a quarter of a century. In 1955 he left the department to become director of the Cooperative Extension Service until his retirement.

Current department head B. K. Webb says Nutt has had a "profound impact" on the agricultural profession.

"He guided the department through its early years," says Webb, "hired the faculty that developed strong programs in teaching, research and extension, and was primarily responsible for obtaining funding for the original ag engineering building."

During the 1940s, Nutt served as national president of the American Society of Agricultural Engineers and worked for the Office of Foreign Agricultural Relations in Central and South America.

He has been a consultant for the World Bank in Syria, Iraq and Paraguay and has worked with the Agricultural Research Advisory Committee for the Republic of Sudan.



The Clemson University Newsletter is published for Jack Jones, a professor of poultry science, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

The endowment, created by the agricultural engineering department and the state section of ASAE, will initially provide graduate fellowships of \$5,000 and undergraduate scholarships of \$1,000 to as many students as the endowment income permits.

Awards, says Webb, will be based on scholarship, leadership and dedication to agriculture.

FACULTY/STAFF MEETING
SCHEDULED FOR DEC. 19

The faculty and staff will meet in a general session at 10 a.m. on Monday, Dec. 19, in Tillman Hall Auditorium.

SCHOLARSHIP ESTABLISHED
FOR TEXTILE MAJORS

A renewable \$1,500 per year scholarship, targeted mainly for area residents, is now being offered to entering freshmen majoring in textiles.

First preference for the Avondale Textile Scholarship will be given to Oconee County residents and second preference goes to residents of Anderson and Pickens counties.

Recipients will be selected on the basis of scholarship, leadership, character and potential for success in the textile field.

Funded by Avondale Mills Inc. of Sylacauga, Ala., the scholarships will be awarded for the first time during the 1984-85 academic term. The deadline for applying is Feb. 15, 1984.

If you have students who may be interested in the Avondale scholarship, have them call the financial aid office at 656-2280.

HOLIDAY SCHEDULES ANNOUNCED
FOR UNIVERSITY SERVICES

John Newton, assistant vice president of business services, has announced the following schedules for the holiday season.

Food Service

Harcombe Dining Hall will close Dec. 14 after dinner and open Jan. 5 for breakfast.

Schilletter Dining Hall will close Dec. 14 after dinner and open Jan. 6 for breakfast.

The Clemson House will close Dec. 21 after dinner and open Jan. 4 for breakfast.

Campus Post Office

Counter service will close Dec. 21 at 3:30 p.m. and open Dec. 28 at 8 a.m.

Counter service will close Dec. 29 at 3:30 p.m. and open Jan. 3 at 8 a.m.

Incoming U.S. mail will not be delivered to the campus during the above dates. Employees may pick up U.S. mail at the U.S. Post Office downtown during regular business hours.

Duplicating Services

Close Dec. 21 at 4:30 p.m. and open Dec. 28 at 8 a.m.

Close Dec. 29 at 4:30 p.m. and open Jan. 3 at 8 a.m.

Laundry and Dry Cleaning Services

Close Dec. 21 at 5 p.m. and open Jan. 3 at 8 a.m.

University Switchboard

Close Dec. 21 at 8 p.m. and open Dec. 28 at 7:30 a.m.

Close Dec. 29 at 8 p.m. and open Jan. 3 at 7:30 a.m.

During these holiday hours, official long distance calls may be made from the University Police Station, where a WATS line will be available, or by direct distance dialing at prevailing Southern Bell rates.

MANAGEMENT DEPARTMENT
RECEIVES EXPORT GRANT

The S.C. District Export Council has awarded a \$4,800 research grant to the management department.

David Swanson, an associate professor of management and chairman of the council's education and research committee, says graduate students will use the grant to conduct export feasibility studies for state firms.

Planned studies include researching potential export markets, tariff laws, financing possibilities and shipment of state-produced products to foreign markets.

Companies participating in the program include an electronics firm, a textile chemical producer, and a rivet and screw maker.

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 102 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Dec. 16-31

SPORTS

- 18 Wrestling: Iowa State, here, TBA.
- 19 Basketball: Baylor, here, 7:30 p.m.
- 21 Wrestling: Wisconsin, here, TBA.

OTHER EVENTS

- 16-31 Annual Student/Faculty Art Sale. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m., Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.
- 19 Carolina Journal. Phil Burt, professor and head of physics and astronomy, talks about nuclear fusion. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 20 Graduation. Littlejohn Coliseum, 11 a.m.
- 21 University housing closes at 8 a.m.
- 22-23 Christmas holidays for University employees.
- 26-27, 30



JAN 13 1984

PRESIDENT SEEKS NOMINATIONS FOR NEW COMMISSION ON STAFF AFFAIRS

If you are a classified employee, you'll soon have a voice on the President's Council. And, right now you have the chance to suggest who that voice should be.

President Bill Atchley, as he announced at the December faculty meeting, has approved the formation of a 13-member Commission on Classified Staff Affairs, which will become the seventh commission of the President's Council.

The commission was recommended by the special Committee on Classified Employee Representation appointed by Atchley early last semester.

The commission's primary work, as outlined by the committee, will be "to study staff concerns and to formulate and recommend to the President's Council university-wide policies and procedures related to classified employees."

Atchley says commission responsibilities will include promoting programs to help employees develop job management and supervisory skills and studying policies relating to compensation, benefits and welfare.

If you are the supervisor of an employee who gets appointed to the commission, he says, your role will be especially important in helping the commission do its best work.

"I would like to encourage those supervisors who have employees on the commission to support them in fulfilling their responsibilities," says Atchley.

"This means commission members should be provided the time to do their jobs well, and they should be provided travel funds as needed to carry out their duties."

The duties of the commission will be strictly related to internal University policy and procedures as they relate to classified employees, says Dean of Student Life Joy Smith, who chaired the study committee.

"The committee did not try to be the commission," she says. "We did not try to address the actual issues that will come up or decide how often the commission should meet. We just defined its role and its membership. The commission, itself, will work out all the bugs after it's been in operation for awhile."

One thing the new commission won't do, she says, is handle grievance procedures.

"There's already a procedure for that," Smith says. "But while the commission won't solve individual problems, it will offer an opportunity for problems of a general nature to be brought to the attention of the President's Council."

One "bug" the commission will have to work out, she says, is a formal procedure for ensuring two-way communication between classified employees and commission members and between commission members and the President's Council.

The committee has already received many suggestions and recommendations regarding the commission.

Continued on page 2.

Continued from page 1.

"The committee is very grateful to all the people who have voiced or written their concerns," she says, "and all the input we have received will be turned over to the commission."

Big not always better

The 13-member commission was kept small by design.

"If you get much bigger," says Smith, "it's hard to be an efficient working body. A small group, we decided, could get more accomplished than a large group."

The University designates 2,200 of its workers as classified employees. Smith says the committee tried to hold the ratio of commission members to classified employees at not fewer than one member for every 250-300 employees "where the groups were seemingly homogeneous."

"Where we combined the colleges or departments, we tried to lower the ratio," she says.

Commission members will serve three-year staggered terms. The committee provided, initially, for three members to be appointed for one-year terms, four for two-year terms and four for three-year terms.

The committee also provided for the chairman, who may be re-elected, to be elected from and by the membership of the commission at the first regular meeting of each year.

The committee did not provide for faculty or student representation on the commission, says Smith.

"We didn't think that the staff concerns would be concerns that faculty and students would need to have input on," she says.

"However, if faculty or students had

an issue related to classified employees, that issue could be shared. All meetings will be open to faculty and students."

Appointments help ensure broader representation

Appointing rather than electing commission members should help to ensure that the commission gets input from a number of classified levels, says Smith.

"Classified employees, we thought, do not need an elected body as such, but rather an opportunity to be heard and to have input into policy making," she says. "We did not set out to create a body to parallel the Faculty Senate, but to ensure that employees at all levels have a place to voice their concerns."

Membership of the commission will be made up of the following numbers of classified employees:

-- three from the College of Agricultural Sciences, one of whom must be stationed off the main campus;

-- two from the colleges of education, engineering, forest and recreation resources, and liberal arts (appointments to be rotated);

-- two from the colleges of architecture, commerce and industry, nursing, sciences, and the Cooper Library, (appointments to be rotated);

-- one from Student Affairs;

-- one from the offices or departments of the President, Internal Auditing, Human Resources, Provost, Undergraduate Studies, Graduate School, Computer Center, DAPS, DISD, Energy Research, Development, Alumni Relations, and University Relations;

-- two from Business and Finance, one of whom must be an employee of the Physical Plant; and

-- two ex-officio voting members:
the director of the Personnel Division
and the director of the Payroll and
Employee Benefits Office.

President Atchley will make the
final appointments from nominations sent
to him, and he is encouraging the partic-
ipation of all classified employees in
the nominating process.

"Whatever your job as a classified
employee," says Atchley, "I hope you'll
feel free to enter a nomination to be
considered for a seat on the commission."

The person you nominate must be a
permanent classified employee of the Uni-
versity. You may nominate more than one
person, and an employee may be nominated
more than once.

A nominating ballot is on page 20 of
this Newsletter. Ballots should be sent
to Dick Simmons at the Personnel
Division, where they will be compiled
and submitted to the president.

If you have questions on the nominat-
ing procedure, call Simmons at 656-2426
or Smith at 656-2153.



The Clemson University
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Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and
suggestions. Call us at 656-2467 or
write us at 103 Fike Center.



Callen

MAUDE CALLEN, NURSE MIDWIFE, HONORED
IN WINTER GRADUATION CEREMONIES

A nurse midwife who has spent 60
years caring for the sick and needy in
rural Berkeley County received an honor-
ary Doctor of Humanities degree Dec. 20
during the University's winter commence-
ment exercises.

Eighty-five-year-old Maude Callen
was honored for her lifetime of service
to the people of Pineville, many of whom
she birthed, nursed, comforted, some-
times clothed and fed, and even taught
to read.

President Bill Atchley also con-
ferred degrees on more than 820 gradu-
ates at the 11 a.m. ceremony. He told
the graduates that diplomas alone would
not ensure them of a successful life and
urged them to adopt a positive approach
to living.

Atchley said no finer example of
"positive living" exists than the woman
the University chose to honor.

Born in Quincy, Fla., Callen gradu-
ated from Florida A & M College and
received her nurse's training at the
Georgia Infirmary at Savannah.

She came to Pineville in 1923 as a
United Thank Offering Worker and mission-
ary nurse and found the need for medical
services so great that she decided to
make it her permanent home.

Continued on page 4.

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To the residents of the swampy, remote village, "Miss Maude" became doctor, midwife, dietician, psychologist, teacher, and friend.

She's delivered more than 1,000 babies, vaccinated 1,500 school children against smallpox in a single day, taught children to read and write in a one-room schoolhouse on the grounds of the mission where she lived, and showed many mothers how to get more nutrition from their bare food budgets.

In 1936, she went to work with the Berkeley County Health Department, where she and a private physician organized the county's first prenatal clinic and venereal disease clinic.

She received national attention -- and \$27,000 in donations through the mail -- after a 1951 "Life Magazine" article highlighted her works. She used the money to build a well-equipped clinic in Pineville that now bears her name.

Callen has shown no signs of retiring. Earlier this year, a CBS television crew tracked her down for a segment of "On the Road With Charles Kuralt."

She managed to squeeze in an interview with Kuralt as she prepared food for housebound senior citizens, many younger than the woman delivering the plates.

1984 W-2s TO SHOW REIMBURSEMENT FOR TRAVEL IN PERSONAL VEHICLES, NON-OVERNIGHT MEALS

Federal regulations have forced the University to begin recording as employee income reimbursements to employees for business travel in personal vehicles and for meals purchased during business trips not involving overnight stay.

The University and other state agencies have fought the requirement since

the Internal Revenue Service announced it three years ago, according to business and finance officials.

But an opinion from the state attorney general's office advising compliance and steps by the comptroller general's office to begin collecting such data leave Clemson no choice but to implement the rule, the officials say.

Here's what this means for you, the individual employee:

The University's "Travel Voucher" form (CUBO 301) has been revised, and, as of the first of this month, only travel vouchers submitted on the new form (available now in Central Stores) will be processed.

The new form includes a line for you to list any reimbursable personal vehicle mileage while on University business and a line for you to show the reimbursable cost of any meals you bought while traveling on University business that did not require you to stay away from home overnight.

You'll be reimbursed for these expenses like always; HOWEVER, at the end of the year, you will receive a separate W-2 form showing totals for all such reimbursements, which you will have to report as income on both your state and federal 1984 tax returns.

You will still get a regular W-2 form showing your normal salary or wages and the amount of taxes withheld during the year.

The second W-2 will show the number of miles traveled in your personal vehicle for which you have been reimbursed during the year and the total dollar amount reimbursed to you for mileage and non-overnight meals.

No taxes will be withheld on that amount during the year.

It's significant that the W-2 will show both the number of miles and the

dollar amount of your reimbursement. That's because you can elect to claim 20.5 cents per mile as a business expense deduction.

The current state mileage reimbursement rate is 23 cents per mile, and you will not be able to claim that extra 2.5 cents per mile as a deduction.

Reimbursement for non-overnight meals is not tax deductible.

None of this will have any effect on your biweekly paycheck.

The payroll system and the travel reimbursement system are entirely separate, says accounting director Bill Thompson.

Neither does any of this affect filing travel vouchers for overnight business trips -- except, of course, that you now have to use the new CUBO 301 form to submit the voucher.

"We've been fighting the requirement about recording reimbursements as income for three years now because of the administrative burden it will place on us and on the individual employee," says Tom Harbin, assistant vice president for financial management.

"But now that we have to do it, we're going to try to do it in the easiest way for us and for the employee."

Neither Thompson nor Harbin expects the number of reimbursement claims to drop because of the reporting requirement.

Both note that the University's land-grant, public service, and regulatory functions require considerable non-overnight travel by employees around the state.

Also, both suggest that employees who plan to claim business travel deductions for income tax purposes should keep complete mileage and reimbursement records to support such claims.

NOMINATIONS NOW BEING ACCEPTED FOR 1984 ALGERNON SYDNEY SULLIVAN AWARD

The University Scholarships and Awards Committee is now accepting nominations from the faculty and staff for the 1984 Algernon Sydney Sullivan Award.

Sullivan medallions are given annually to two members of the graduating class who have demonstrated outstanding service to the University, says committee chairman Corinne Sawyer.

A third medallion goes to a non-student member of the Clemson community whose record of service to the University and to the community goes far beyond the call of duty or the scope of that person's employment.

Recipients of the medallion are selected in recognition of their influence for good, their excellence in maintaining high ideals of living, their spiritual qualities, and their generous and disinterested service to others.

Each nomination, says Sawyer, should be supported by a "fairly complete resume of the candidate's achievements."

The deadline for letters of nomination and supporting materials is Feb. 3. They should be sent to Sawyer at G-11 Tillman Hall.

JAN. 18 -- THAT'S THE DATE FOR RETIREMENT PLANNING

In case you forgot over the holidays, the two meetings for employees who are planning to retire by July 1 of this year will be held Jan. 18.

Potential retirees should attend either the 9 a.m. meeting or the 1:30 p.m. meeting in the Senate Chambers of the University Union complex. The same information will be provided during each session.



O'Dell

EXTENSION DIRECTOR HONORED FOR 21 YEARS OF SERVICE

Extension Service director Wayne T. O'Dell has received two awards for exceptional career work.

Epsilon Sigma Phi, an Extension Service honorary society, has presented O'Dell a plaque for 21 years of distinguished service to Extension and to the people of South Carolina.

He was also the recipient of a plaque for special service to the 4-H program and its 70,000 participants and leaders statewide.

The 4-H plaque cited O'Dell for his help in establishing the S.C. 4-H Agents Association and his strong leadership and support of the entire 4-H program.

A native of Pickens County, O'Dell earned his bachelor's and master's degrees in dairy science here and his doctorate in dairy science at Penn State University.

He was named director of the Extension Service here in 1969.

EXTENSION COUNTY AGENTS RECEIVE SUPERIOR PERFORMANCE AWARDS

Two Extension county agents have been awarded a Superior Performance Award for 1983.



Goldberg



Jones

Lillian Goldberg, county agent associate leader, was honored for her work with families and consumers in Orangeburg County.

Extension director Wayne T. O'Dell says Goldberg's skill at understanding problems and developing innovative methods to reach her clientele "has provided families with increased income, a more beautiful environment and up-to-date home economics information and techniques."

She earned her bachelor of science degree in home economics from Winthrop College and joined the Clemson staff as a county Extension home demonstration agent in Hampton in 1955.

A second Superior Performance Award was presented to W. C. Jones Jr., Lexington County agent senior associate.

Jones has developed the reputation, said O'Dell, of being "the Extension agent with the correct answer to the problem."

"Farmers as well as home owners with ornamental and garden problems call on him," said O'Dell.

Jones, who now sits on the Extension Senate, has served as secretary-treasurer of the S.C. Association of County Agricultural Agents.

He earned his bachelor of science degree in animal husbandry here and joined the staff as a county Extension agent in 1961.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members usually appear in the last Newsletter of each month. However, because of the holiday schedule, the announcements for December were held for this issue.

Accountancy

G. T. Friedlob (Assoc Prof) and E. L. Bryan (Asst. Prof) presented testimony before the Securities and Exchange Commission Forum on Small Business, and that testimony will be reprinted in Management Accounting (January 1984).

Prof. Friedlob and C. W. Dungan (Prof, USC) presented a paper, "Restricting IRS Access to Auditors' Tax Accrual Workpapers: The Beginning of a Work-Product Privilege for Accountants," at the Southeast Regional Business Law Association meeting in Atlanta, Ga., Oct. 28.

C. T. Rumble (Lect) published an article, "So You Still Have Not Adopted LIFO" in Management Accounting (October 1983). The article received the Lybrand Silver Medal for publication excellence from the National Association of Accountants.

Ag Economics & Rural Sociology

B. L. Dillman (Prof) presented a paper, "Opportunity Cost of Farmland Retention: A Framework for Analysis," during a seminar on Farmland Retention at the meeting of the Southern Natural Resource Economics Committee in Knoxville, Tenn., Oct. 20.

J. C. Hite (Alumni Prof) gave a talk, "Trends and Problems in Local

Government Finance," at a Forum on Issues in Local Government sponsored by the Trident Council of Governments in Pinopolis Oct. 21.

B. H. Robinson (Prof and Hd) presented a discussion paper on the College of Agricultural Sciences' research and Extension programs in natural resources and the environment at a meeting of the Governor's Council on Natural Resources and the Environment held here Oct. 18.

W. A. Tinsley (Prof) and G. L. Watkins (Instr) conducted a training session for Arkansas farm management specialists on "Computer Applications in Financial Management" in Little Rock, Ark., Oct. 3-7.

Biological Sciences

W. C. Alexander (Former Grad Stu) and R. J. Taylor (Assoc Prof) published "Sex Ratio and Optimal Harvest of Canvasback Ducks, a Model" in Ecological Research 19 (October) 285-298.

D. G. Heckel (Asst Prof) received a \$130,000 grant from the National Science Foundation for a three-year study of "Ecological Aspects of Amphibian Metamorphosis: Experimental Tests of an Hypothesis."

Prof. Heckel organized and hosted the 1983 meeting of the Southeastern Ecological Genetics Group at the Outdoor Laboratory here Aug. 19-20. At that meeting the following papers were presented:

-- "Are Complex Life Histories Evolutionarily Unstable?" by Prof. Heckel; and

-- "Molecular Evolutionary Genetics of the Amylase System in Drosophila Pseudoobscura" by D. G. Yardley (Assoc Prof).

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J. M. Shively (Prof) and S. Heinrich (Former Grad Stu) published "Encoding of Both Subunits of Ribulose-1,5-Bisphosphate Carboxylase by Organelle Genome of Cyanophora paradoxa," in Nature 304 (July) 373-374.

Biology Program

R. A. Garcia (Assoc Prof) presented an invited workshop, "Microcomputers in Bioeducation," and gave an invited symposium, "Computer-Assisted Instructional Materials," at the annual meeting of the National Association of Biology Teachers in Philadelphia, Pa., Oct. 19-23.

Prof. Garcia gave an invited paper, "Microcomputer Software in Biology," at the International Science Educators' Conference in Winnipeg, Manitoba, Canada, Oct. 22.

D. R. Helms (Prog Dir and Hd) attended the first Nature Conference in Boston, Mass., Sept. 19-22. The topic of the conference was "Thirty Years of DNA."

D. J. Stroup (Asst Prof) and W. M. Surver (Assoc Prof) presented a workshop, "How to Choose and Develop a Science Research Project," at the fall meeting of the S.C. Jr. Academy of Science at Coastal Carolina College in Conway, Oct. 1.

The following participated in the annual meeting of the SC² (South Carolina Science Council) Annual Meeting in Columbia Nov. 4-5:

-- Prof. Helms, Prof. Stroup, S. Aneja (Instr), R. C. Armstrong (Instr) and Prof. Surver presented a workshop, "Biology Workshops by Clemson." All faculty members participated in writing the program and assembling the supplies for the lab exercises in the workshop.

-- Prof. Helms presented two workshops: "A Comprehensive Guide for Teaching Biological Sciences" and "ST² (Student-Teacher Special Teams) Olympics."

-- S. B. Miller (Assoc Prof) and C. K. Wagner (Assoc Prof) attended the session. Prof. Wagner will serve as president-elect for the S.C. Association of Biology Teachers in 1984 and as president in 1985.

Chemistry

R. A. Abramovitch (Prof) served on the Docteur Ingenieur Dissertation Committee of Jean-Philippe Mayer Oct. 15 in Mulhouse, France. Dr. Mayer is now working in the research laboratories of CAPSUGEL in Basel, Switzerland. The main production facilities of that company are in Greenwood.

Prof. Abramovitch gave a lecture, "Ring Transformations of Heteroaromatic N-Oxides," at the Colloque de Chimie Heterocyclique in Brussels, Belgium, Sept. 26-28.

Prof. Abramovitch attended the third "Regio-Symposium," organized by the Universities of Basle, Freiburg and Mulhouse, in Achauinsland/Achwarzwald, Germany, Sept. 28-30.

The following papers were presented at the 35th Southeastern Regional Meeting of the American Chemical Society in Charlotte, N.C. Nov. 9-11:

-- "Preparation and Some Reactions of N-Bromo-perhalo-1-alkanamines" by B. A. O'Brien (Vstg Inst) and D. D. DesMarteau (Prof and Hd);

-- "¹³C-NMR Spectral Study of the Mode of Binding of Metal-Ions to Some Carbohydrates and Glycopeptides" by K. Dill (Asst Prof), M. E. Daman (Grad Stu), R. L. Batstone-Cunningham (Vstg Instr), A. A. Pavia (Prof, Centre

Universitaire d'Avignon, France), M. Denarie (Grad Stu, CUA) and J. M. Lacombe (Res Assoc, CUA);

-- "¹³C-NMR Spectral Studies of Modified Glycophorin A and Glycophorin A Glycopeptides" by Prof. Dill, Daman, Batstone-Cunningham and R. E. Hardy (Grad Stu);

-- "Metal Fluoride-Promoted Halogenation of Cyanogen, Its Derivatives and Conversion of N-X Bonds (X = Cl, Br) to N-Y Bonds (Y = Cl, Br)" by Prof. DesMarteau; and

-- "Iminium ion - Vinylsilane Cyclization Approach to the Synthesis of Elwesine, an Amaryllidaceae Alkaloid" by A. R. Pinder (Prof).

Also at that meeting, Prof. Dill chaired the Biological Chemistry Section.

Prof. DesMarteau has received a three-year \$231,859 grant from the Army Research Office for "Research and Novel Development in Organonitrogen Fluorine Chemistry From Carbon Nitrogen Multiple Bonds."

Prof. DesMarteau presented an invited lecture, "Carbon-Nitrogen Multiple Bonds as Reactive Intermediates in Fluorinated Compounds," at the American Cyanamid Company in Stamford, Conn., Nov. 1.

Prof. Dill has been invited to be a reviewer for Journal of Chemical Education, the journal of the American Chemical Society.

Prof. Dill presented a seminar, "Structural Studies of the MN Blood Group Determinants," at Bob Jones University in Greenville Nov. 15 and at North Georgia College in Dahlonega, Ga., Nov. 16.

Prof. Dill, Daman, Batstone-Cunningham, Prof. Pavia, and Lacombe published a paper, "¹³C-NMR Spectral Study of the Mode of Binding of

Gd³⁺ to Various Glycopeptides" in Carbohydrate Research 123 (1983) 123-125.

Prof. Dill, Daman, Batstone-Cunningham, Prof. Pavia and Denarie published a paper, "¹³C-NMR Spectral Study of the Mode of Binding of Gd³⁺ and Mn²⁺ to a Tri-O-D-Galactosylated Hexapeptide," in Carbohydrate Research 123 (1983) 137-144.

Civil Engineering

S. C. Anand (Prof) has been appointed to the advisory committee responsible for the preparation of the technical program of the 5th ASCE Engineering Mechanics Division Specialty Conference to be held at the University of Wyoming in Laramie Aug. 1-3, 1984.

Prof. Anand attended meetings of the Administrative Committee on Publications and the Committee on Methods of Analysis of the Structural Division of the American Society of Civil Engineers during the ASCE Fall Convention in Houston, Texas, Oct. 17-21.

At that meeting, H. W. Busching (Prof) presented a paper, "An Educator's Viewpoint of University/Industry Interchange."

Prof. Busching and J. P. Porcher Jr. (Prin Grad Asst) received a \$10,000 grant from the National Roofing Foundation in Chicago, Ill., for research on "Thermo-Mechanical Characterization of Modified Bitumens for Use in Low-Slope Roofing." The project will be completed in May 1984.

Prof. Busching and F. Waller (Dist Engrn, The Asphalt Institute) co-chaired a three-day short course on "Flexible Pavements: Maintenance and Management" in Atlanta, Ga., Nov. 1-3. The course was co-sponsored by the civil

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engineering department and The Asphalt Institute.

Prof. Busching received a supplementary \$15,854 contract from Oak Ridge National Laboratory to complete a survey of energy-related roofing research conducted by U.S. industries and agencies.

Prof. Busching, Te-Chuan Chang (Grad Stu) and G. Courville (Oak Ridge Natl Lab) presented a paper, "Innovative Characterizations of Low-Slope Roofs for Energy Conservation" at the Gateway Energy Conference in St. Louis, Mo., Nov 3.

Economics

N. K. Womer (Prof) and T. Gullledge (Form Grad Stu and Asst Prof at LSU) published a paper, "A Dynamic Cost Function for an Airframe Production Program," in Engineering Costs and Production Economics (September 1983).

Elementary and Secondary Education

I. C. Briscoe (Prof) conducted a workshop for teachers on "Assertive Discipline" at Varennes Elementary School, Anderson District Five, Oct. 18.

S. L. Buckner (Assoc Prof) and C. L. Peters (Lrng Res Mgr) presented "Clemson's Computervantage" to SCTM's fall conference in Irmo Nov. 5.

E. B. Galloway (Prof) is serving as a member of the Triple E Committee (Entrance Examination in Education) for South Carolina and as a consultant to District I in Anderson County for the Ten-Year Self Study for SACS (Southern Association for Colleges and Schools).

R. P. Green Jr. (Asst Prof) published The American Tradition: A History of the U.S., Teachers Annotated Edition.

Prof. Green presented "The Historian's Craft: Historiography in the U.S. History Classroom" at the National Council for the Social Studies Northeast Regional Conference in Hartford, Conn., Oct. 29.

Prof. Green has been appointed to a three-year term on the Educational Publishing Advisory Committee of the National Council for the Social Studies.

J. V. Hamby (Assoc Prof) published "The Value in Evaluation" in The Clearing House (September 1983).

Prof. Hamby recently completed a three-year evaluation of a Title IV-C innovative staff development project, "Beginning With Excellence," for the Greenville County School District.

E. F. Olive (Prof) has been appointed to the State Education Advisory Committee for 1983-86.

R. K. Peden (Prof) was the Clemson University Chapter Phi Delta Kappa delegate and B. M. Raetsch (Assoc Prof) was the alternate delegate at the Biennial Council of the International Phi Delta Kappa in Dallas/Ft. Worth, Texas, Oct. 20-23.

Prof. Peden assisted A. Morgan (Dir Crisis Ministries, Anderson) in presenting a workshop on First Aid Care for Child Abuse Victims at the American School Health Association annual convention in Louisville, Ky., Oct. 13.

B. L. Sandberg (Assoc Prof) has been appointed to a three-year term on the Curriculum Committee, an advisory committee of the National Council for the Social Studies.

Prof. Sandberg chaired the ninth annual Clemson at Piedmont Tec Innovations Day program in Greenwood

Oct. 21. This inservice program, jointly planned by school district representatives and Clemson faculty, had presentations on four major themes: Computers in Education, School Evaluation, Motivation/Discipline and Teacher Burnout/Morale. The program is co-sponsored by the College of Education here and Piedmont Technical College.

At this program, D. H. Pate (Prof), B. V. Burkett (Assoc Prof), S. L. Buckner (Assoc Prof) and C. L. Peters (Lect) made a presentation, "Microcomputer Applications for Education."

V. B. Stanley (Assoc Prof) and M. S. Crosby (Asst Prof) presented "Children's Literature Plus Patterned Language Equal Successful Writing Experiences" at the Clemson Reading Conference here Oct. 13.

J. H. Walker (Assoc Prof) gave an address, "Analyzing the Recent Education Reports," to the Clemson Phi Delta Kappa Chapter Oct. 19.

Prof. Walker gave a talk, "Restructuring the Education Profession," to the Oconee County Education Association Oct. 25.

English

H. B. Bryant (Assoc Prof) published an article, "The Novels of Conrad Richter," in The Critical Survey of Long Fiction, Frank N. Magill, ed., Salem Press, Vol. VI, 2263-2273.

F. L. Day (Assoc Prof) read "The Sickness of Self-Consciousness in Dostoevsky and Carlyle" at the Mountain Interstate Foreign Language Conference in Blacksburg, Va., Oct. 13-15.

D. N. Griffin (Asst Prof) published "Rachel Field: 1894-1942" in American Writers for Children, 1900-1960, Vol. 22, ed., John Cech (Detroit: Gale Research, 1983) 170-175.

C. E. Johnston (Asst Prof) published "Single-Editor Editions From Manuscript: The Journals of Theodore Parker" in the Newsletter of the Association for Documentary Editing, (May 1983) 4-5.

R. W. Moran (Prof) published two poems: "The Branch Bank" and "The Termite Man" in The Southern Review, 19, Nov. 4 (Autumn 1983) 853-54.

R. B. Rollin (Lemon Prof) gave an address on the nature and functions of the American Association of University Professors at the local, state and national level to a faculty group at Tri-County Technical College in December. Prof. Rollin is the Clemson chapter president.

C. H. Sawyer (Prof) presented an invited paper, "Kilroy Was Here -- But He Stepped Out for a Few Minutes: The Absentee Character in Popular Fiction," at the Mid-West Popular Culture Association at Bowling Green State University in Ohio Oct. 21.

M. S. Steadman (Prof and Wrtr in Res) and G. W. Koon (Assoc Prof and Actg Hd) were on the faculty of The University of South Carolina Writer's Workshop in Nov.

Prof. Koon has been elected to a term on The South Carolina Committee for the Humanities.

D. C. Tillinghast (Asst Prof) published "Williams Lake, British Columbia," a chapter from a novel, in Ploughshares, 9, Nos. 2 and 3 (August 1983) 145-157, an issue devoted to Southern writing.

M. O. Usrey (Assoc Prof) has been elected vice president/president elect of the Children's Literature Association.

Entomology, Fisheries & Wildlife

J. D. Culin (Asst Prof) and K. V.

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Yeargan (Univ of Ky) published two papers in the Annals of the Entomological Society of America (Vol. 76, No. 5): "Comparative Study of Spider Communities in Alfalfa and Soybean Ecosystems: Foliage-Dwelling Spiders" and "Comparative Study of Spider Communities in Alfalfa and Soybean Ecosystems: Ground-Dwelling Spiders."

The following papers were presented at the 37th Annual Conference of the Southeastern Association of Fish & Wildlife Agencies in Asheville, N.C., Nov. 6-9:

-- "Life History Aspects of American Eels in Charleston Harbor, South Carolina" by W. K. Michener (Form Grad Asst) and A. G. Eversole (Assoc Prof).

-- "Occurrence and Distribution of Larval Fish in a Coastal Plain River System" by M. R. Meador (Former Grad Asst) and Prof. Eversole.

-- "Movement Behavior of Wood Ducks Wintering in South Carolina" by G. R. Costanzo (Form Grad Stu), T. T. Fendley (Assoc Prof) and J. R. Sweeney (Assoc Prof).

J. F. Grant (Grad Res Asst) and B. M. Shepard (Prof) published a paper, "Influence of Humidity on Development of a South American Strain of Voria ruralis, a Parasitoid of Soybean Looper Larvae," in the Journal of the Georgia Entomological Society, Vol. 18, 444-448.

R. E. McWhorter (Ag Sci Assoc II), Grant, and Prof. Shepard published a paper, "Life History of a Predator, Calleida decora, and the Influence of Temperature on Development," in the first issue of the Journal of Agricultural Entomology, Vol. 1, No. 1, 68-77.

The following papers were presented at the 29th annual meeting of the S.C. Entomological Society Inc. at the Ramada Inn in Florence Nov. 3-4:

-- "Ectiban for the Control of Horn Flies and Face Flies on Beef Cattle" by T. R. Adkins Jr. (Prof) and A. A. Weathersbee III (Grad Res Asst);

-- "Exploration of Economic Thresholds for Guidelines in Making Practical Treatment Decisions" by D. R. Alverson (Assoc Prof);

-- "Experimental Chemicals for Control of Two-Spotted Spider Mite on Apples" by M. A. Baughman (Grad Stu) and T. E. Skelton (Prof);

-- "Development of a Field Survey for Insecticide-resistant Populations of Predatory Insects" by T. M. Brown (Assoc Prof) and B. J. Disney (Grad Res Asst);

-- "Superoxide Dismutase Activity in the Tissues of Heliothis virescens and Oncopeltus fasciatus" by Prof. Brown and P. K. Bryson (Res Spec II);

-- "Determination of the Red Imported Fire Ant, Solenopsis invicta Buren, Subterranean Foraging Network and Mound Interrelationships" by D. W. Byron (Grad Asst) and S. B. Hays (Prof and Hd);

-- "Infectivity of an Iridescent Virus to Anticarsia gemmatalis (LEP: Noctuidae)" by G. R. Carner (Prof) and P. J. Sieburth (Grad Res Asst);

-- "Velvetbean Caterpillar Management Strategies for South Carolina" by J. W. Chapin (Assoc Prof) and M. J. Sullivan (Prof);

-- "The Effects of Chlordimeform on Microplitis demolitor Development in Heliothis zea" by J. D. Culin (Asst Prof) and W. P. DuBose III (Vstg Asst Prof);

-- "The Development of the Parasitoid, Pediobius fovelatus, in Mexican Bean Beetles Reared on Susceptible and Resistant Soybean Lines" by B. A. Dover (Grad Res Asst), R. Noblet (Prof), R. F. Moore (Adj Prof) and B. M. Shepard (Prof);

-- "Multiple Parasitism of the Soybean Looper by Meteorus autographae and Microplitis demolitor: Indigenous versus Imported Parasitoids" by Prof. Shepard and J. F. Grant (Grad Res Asst);

-- "Palexorista laxa: Preliminary Evaluations for Potential Against Heliothis spp. in Soybean and Tobacco" by Grant, Prof. Shepard, A. W. Johnson (Prof) and J. E. Powell (S. Fld Crop Insect Mngmnt Lab, ARS, USDA, Stoneville, MS);

-- "Tobacco Flower Protection From Budworms" by Prof. Johnson;

-- "Diurnal Activity of the Southern Corn Billbug" by J. A. DuRant (Prof);

-- "Ambrosia Beetles: A New Pest of Peaches" by C. S. Gorsuch (Assoc Prof) and J. Kovach (Grad Res Asst);

-- "The Potential of the Black Dump Fly, Ophyra aenescens (Wiedemann) as a Synanthropic Pest Resulting From Its Breeding in Environmental-type Poultry House" by J. B. Kissam (Prof) and M. P. Nolan III (Grad Asst);

-- "The Use of Polyvinyl-Chloride Strips Impregnated With 10% Permethrin for Control of Northern Fowl Mites on Cages Layers" by Prof. Kissam, Nolan and L. A. Lemke (Grad Res Asst);

-- "Benthic Invertebrate Drift in Artificial Streams Contaminated With Sediment and Sediment With Triphenyl Phosphate" by W. R. English (Grad Stu);

-- "Grain Sorghum -- Current Status of Insect Management" by R. P. Griffin (Asst Prof);

-- "Spring Relapse of Vector-borne Leucocytozoonosis in Turkeys" by S. Horosko III (Grad Asst) and R. Noblet (Prof);

-- "Spatial Distribution of Velvet Ants on the Archbold Biological Station, Florida" by D. G. Manley (Assoc Prof); and

-- "Early Season Control of Boll Weevils with Diflubenzuron" by M. E. Roof (Asst Prof).

Environmental Systems Engineering

R. A. Fjeld (Assoc Prof) and A. W. Elzerman (Assoc Prof) received a \$4,500 grant from the Water Resources Research Institute to make preliminary measurements of radionuclide concentrations in lakes.

Prof. Fjeld, A. R. McFarland (Texas A&M Univ) and R. O. Gauntt (Sandia Lab) published "Continuum Field-Diffusion Theory for Bipolar Charging of Aerosols" in the Journal of Aerosol Science, 14 (1983) 541-556.

C. P. L. Grady (Bowen Prof) presented a paper, "Multicomponent Substrate Removal in Suspended Growth Reactors," at the Symposium on Application of Basic Research to the Operation and Control of Biological Waste Treatment Systems during the 1983 Annual Meeting of the American Institute of Chemical Engineers in Washington, D.C., Oct. 30-Nov. 4.

Prof. Grady and G. T. Daigger (Former Grad Stu, Purdue) published "An Evaluation of Transfer Function Models for the Transient Growth Response of Microbial Cultures" in Water Research, 17 (1983) 1661-1667.

Prof. Grady, E. J. Kirsch (Fclty Mbr, Purdue), and L. P. Moos and R. F. Wukasch (Former Grad Stus, Purdue) published "Pentachlorophenol Biodegradation - I - Aerobic" in Water Research, 17 (1983) 1575-1584.

Prof. Grady, M. K. Koczwara (Former Grad Stu, Purdue) and E. J. Kirsch (Prof, Purdue) published "Formation of Organic Chlorine in Activated Sludge Effluents" in Water Research, 17 (1983), 1863-1869.

Forestry

D. C. Guynn (Assoc Prof), S. P. Mott (Miss St Univ), W. D. Cotton (Dept of Wldlf Cons, Miss) and H. A. Jacobson (Miss St Univ) published "Cooperative Management of White-tailed Deer in Private Lands in Mississippi" in the Wildlife Society Bulletin 11(3) 211-214.

C. L. Lane (Prof) and H. I. Shade (Sr Eng, DuPont, Charleston) presented a paper, "Application of Effluents and Sludges to Forests," at the annual meeting of the S.C. Water Pollution Control Association in Myrtle Beach Nov. 2-4.

History

J. L. Arbena (Prof) presented "Rafael Reyes: A Continuing Enigma" at a panel on Colombian history during the annual meeting of the Southern Historical Association in Charleston Nov. 9-12.

L. J. Greenspoon reviewed Introduction to the Critical Study of the Text of the Hebrew Bible by J. Weingreen in Biblical Archaeologist, (Summer 1983).

D. G. Paz (Asst Prof), who is in London conducting research under an NEH Fellowship, read a paper, "Popular anti-Catholicism in Lancashire, 1850-51," at the Institute of Historical Research, University of London.

J. V. Reel Jr. (Prof) was elected vice president of the National Opera Association at its meeting in Boston, Mass., Nov. 1-5. At that meeting he chaired the session on "New Operas for Children."

Prof. Reel served as commentator on a session, "Reinterpretations of the Ring," at the Wagner Centennial Conference in Chicago, Ill., Nov. 10. He also

served as chief critic for the National Endowment for the Humanities at that conference, which was jointly sponsored by the University of Illinois at Chicago, the Illinois Council for Humanities, the Illinois Council for the Arts, and the National Endowment for the Humanities.

Industrial Education

The following presentations were made to the Georgia State Industrial Arts Association at Georgia Southern College in Statesboro, Ga., Oct. 28:

-- "Computer Controlled Metric 500" by B. V. Burkett (Assoc Prof); and

-- "Computer Applications in the Industrial Arts Laboratory" by D. H. Pate (Prof).

Industrial Engineering

J. A. Chisman (Prof and Actng Hd) chaired a session on "Simulation Applications" at the Operations Research Society and Institute of Management Sciences Conference in Orlando, Fla., Nov. 7-9.

At that conference, Prof. Chisman presented a paper, "Best Little Warehouse in Charlotte." He also presented and critiqued a paper, "An Experimental Investigation of Management Strategies and Productivity Improvement," written by G. H. Saad (Prof, City Univ, NY).

Prof. Chisman published "The Complete OR Analyst" in Interfaces, Vol. 13, No. 4 (August 1983).

C. R. Lindenmeyer (Prof) helped to establish an annual \$400 senior I.E. scholarship sponsored by the Association of Textile Industrial Engineers. This year the scholarship was awarded to an industrial engineering

technology major. Future awards will be made to seniors in the industrial engineering department.

Languages

The following papers were presented at the Mountain Interstate Foreign Language Conference at Virginia Tech in Blacksburg, Va., Oct. 13-15:

-- "European Youth Hostels and Youth Tourist Hotels -- Try 'Em, You Might Like 'Em!" by E. P. Arnold (Asst Prof);

-- "Juan Jose Arreola: An Allegorist for an Age of Skeptics" by P. R. Heusinkveld (Asst Prof);

-- "The Pictorial Tradition in Spanish Photography: the Photographic Art of Jose Ortiz Echague and Joaquin Pla Janini" by S. C. King (Asst Prof), who is on the executive committee of the conference; and

-- "You Are What You Wear: Appearance and Being in Jean Genet's Works" by H. E. Stewart (Prof and Hd).

Also at that conference, L. T. Perry (Assoc Prof) organized and chaired a section.

M. Cranston (Assoc Prof) organized a section and Prof. Stewart presented a paper on "Surveys With a Difference: Alternative Approaches to the Teaching of Literature" at the Southern Conference on Language Teaching in New Orleans, La., Oct. 6-8.

P. W. Wannamaker (Assoc Prof) is project director of a U.S. Department of Education \$34,318 grant to internationalize the Clemson Cooperative Education Program. This international internship option of the Co-op program will offer students of any major a six-months' position in international trade-related work either in the United States or abroad.

Other members of the grant team are M. H. Williams (Dir of the Co-op) and C. P. Rosson (Asst Prof, Ag Econ & Rur Soc).

M. M. Sinka (Assoc Prof) chaired a session, "German II" (German literature from 1750-1933), at the South Atlantic Modern Language Association meeting in Atlanta, Ga., Oct. 29.

Prof. Sinka published "Unappreciated Symbol: The Ungluecksau in Adalbert Stifter's Bergkristall" in Modern Austrian Literature, XVI, 2 (1983) 1-15. She also published a review of Fin de Siecle. Gestalten und Mythen by Hans Hinterhauser in The German Quarterly, XVII, 3 (1983) 294-295.

Prof. Sinka presented three workshops:

-- "Conversational and Compositional Activities Pertaining to the German Family" at a summer camp for high school and college teachers of German at Unicoi State Park near Helen, Ga., Aug. 5. The workshop was sponsored by the Goethe Institute of Atlanta.

-- "Stages of Infatuation and Love: Conversational and Compositional Activities" at the Southern Conference on Language Teaching in New Orleans, La., Oct. 8.

-- "Journey Through Germany: Conversational and Compositional Activities" for high school teachers of German in the Southeast at the German-American week in Atlanta, Ga., Nov. 5. The workshop was sponsored by the Goethe Institute of Atlanta.

Library

The following were elected vice chair/chair elect of sessions at the annual meeting of the S.C. Library Association in Greenville Oct. 14:

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-- J. F. Boykin (Lib), College and University Section;

-- M. Harris (Asst Lib), Government Documents Roundtable; and

-- E. M. Messman (Gen Lib), Library Instruction Roundtable.

Also at that meeting, Harris gave a paper on "Other Sources of Nuclear Energy in South Carolina."

F. M. Diaz (Asst Lib) was appointed to the editorial committee of The Journal of Agricultural Entomology.

M. F. Kohl (Assoc Lib) published a review of the Ohio Municipal Records Manual in The Midwestern Archivist, Vol. 8, No. 1 (1983) 42.

R. W. Meyer (Assoc Lib) gave a paper, "How to Buy the System You Always Wanted Without the Agony of Bidding," at the Conference on Integrated Online Library Systems in Columbus, Ohio, Sept. 26-27.

Management

D. W. Grigsby (Asst Prof) published an article, "Improving Individual Performance" in Negotiating in Organizations, Sage Publications, 320-338.

M. J. Stahl (Prof and Hd), J. Balderston and R. Goodman (UCLA) and P. Birnbaum (Indiana Univ) wrote Modern Management Techniques in Engineering and R & D, the second book in the Van Nostrand Reinhold Series in Managerial Skills in Engineering and Science.

Prof. Stahl, W. H. Hendrix (Assoc Prof), T. W. Zimmerer (Prof) and A. Gulati (Stu) presented a paper, "Is Power the Great Motivator? Testing Two Models of Power and Affiliation for

Executives," at the Southern Management Association Meeting in Atlanta, Ga., Nov. 18. The paper was published in the Proceedings, 255-257.

Mathematical Sciences

J. R. Fulton (Prof and Hd) gave two talks, "Linear Algebra -- A Most Applicable Subject in Mathematics" and "Intuitive Geometry -- Shortest Path Problems," at the Annual Meeting of the S.C. Council of Mathematics Teachers in Columbia, Nov. 4-5.

Also at that meeting, J. W. Kenelly (Prof) was elected executive secretary of the Association of Advanced Placement Mathematics Teachers and gave a talk to that group on "Pre-College Placement Testing."

As one of the 27 members of the Mathematical Association of America's National Panel of Curriculum Consultants, Prof. Kenelly participated in an in-depth review of the mathematical sciences program at Warren Wilson College in Swannanoa, N.C., Nov. 10-11.

Prof. Kenelly met with the College Board's Council on Academic Affairs in New York, N.Y., Oct. 31.

Prof. Kenelly presented a colloquium, "The Future of Calculus," at the University of Georgia Oct. 27.

Prof. Fulton and T. G. Proctor (Prof) participated in a panel session on "Public-Private Sector Cooperation in Pre-College Mathematics-Science Education" at the Society for Industrial and Applied Mathematics national meeting in Norfolk, Va., Nov. 7-9.

The following presented papers at the Joint National Meeting of ORSA/TIMS in Orlando, Fla., Nov. 7-9:

-- R. C. Laskar (Prof) presented

"Domination and Irredundance of Graphs" in the Graph Theory session;

-- J. P. Jarvis (Assoc Prof) and D. R. Shier (Prof) presented "An Interactive Package for Network Calculations" in the Network Optimization session;

-- Prof. Jarvis and J. F. Rudisill (Form Grad Stu) presented "Simulation of Residential Photovoltaic Systems;" and

-- P. M. Dearing (Assoc Prof) presented "The Maximum Independent Set Problem and Chordal Subgraph Structures" in the Graph Theory session.

Prof. Shier and T. Perticone (Grad Stu) presented a paper, "Mathematical Approaches to the Ranking of Athletic Teams," at the Southeastern Regional Meeting of TIMS (The Institute of Management Science) in Myrtle Beach Sept. 25. Perticone's paper placed first in the student paper competition for which he received a cash award.

The following presentations were made at the Southeastern-Atlantic Regional Conference on Differential Equations at the University of Tennessee in Knoxville, Tenn., Nov. 4-5:

-- "Oxygen Uptake for the Tube Foot Structures in a Sea Cucumber" by T. G. Proctor (Prof); and

-- "RKH Space Methods for Approximating the Covariance Kernels of a Class of Stochastic Linear Hereditary Systems" by J. A. Reneke (Assoc Math Sci Prof, Nvl Cstl Systms Ctr).

D. R. LaTorre (Prof) published "The Least Semilattice of Groups Congruence on a Regular Semigroup" in Semigroup Forum, Vol. 27 (1983) 319-329.

W. F. Moss (Assoc Prof) gave a talk, "Spin Mode Acoustic Radiation From the Flight Inlet," at the fall meeting of the Society for Industrial and Applied Mathematics in Norfolk, Va., Nov. 7-9.

Mechanical Engineering

J. G. Goree (Prof) has received a one-year \$61,874 grant from the National Aeronautics and Space Administration for the continuation of his study on "Crack Growth in Bonded Isotropic and Orthotropic Elastic Half-Planes." NASA-Langley has supported this study since 1974 with a total of \$429,840.

Prof. Goree gave a seminar on "Mathematical Modeling Related to Stress Analysis in Composites" at the Naval Research Laboratories in Washington, D.C., Oct. 20.

Nursing

E. M. Baines (Asst Prof) gave an invited talk, "Stress in the Family Caregiver of the Disabled Older Adult," at the Sixth Annual Meeting of the S.C. Gerontological Society in Greenville, Oct. 6-7.

B. F. Campbell (Asst Prof) was invited to present the "Living Well" project, a weekly column for newspapers, to a publicity workshop at the Sigma Theta Tau National Convention in Boston, Mass., Oct. 11-14. Sigma Theta Tau is the International Honor Society for nurses.

F. M. Oglesby (Assoc Prof) presented a paper, "Family Health Nursing: An Approach for Maximizing Family Health," at the international conference and exhibition "Toward Tomorrow's World -- Community Care" in London, England, Nov. 23. The conference was sponsored by the Royal College of Nursing and the Nursing Times of London.

P. M. Kline (Asst Prof), R. B. Hughes (Asst Prof), A. S. Prevost (Assoc Prof), E. M. Baines (Asst Prof) and S. W. Thompson (Asst Prof) participated

Continued on page 18.

Continued from page 17.

in the Second Annual Nursing and Your Health Program for Cadette and Senior Girl Scouts from the Old 96 Girl Scout Council held here Oct. 15. Twenty-six nursing students helped provide health screening and instruction to 104 Girl Scouts and 26 Scout leaders.

Parks, Recreation and Tourism Management

J. L. Stevenson (Prof and Dir of Honors Prog) gave an invited presentation, "Motivations for Excellence in Working and Living," to a meeting of the State of South Carolina Certified Training Program for Swimming Pool/Spa Operators in Greenville Oct. 14.

Physics and Astronomy

A. L. Laskar (Prof) and P. A. Cardegna (Former Grad Stu) published "Observations on Anomalous Defect Parameters in the Study of Mass Transport in Silver Halides" in Radiation Effects Vol. 75 (1983) 27-31.

This paper was presented at the Fourth Europhysical Topical Conference on "Lattice Defects in Ionic Crystals" in Dublin, Ireland, Aug. 29-Sept. 23, and it was reviewed as ORNL Report #C-10-83 by the Office of Naval Research, London.

The following papers were presented at the International Congress of Photographic Science in Cambridge, England, Sept. 6-10, and reviewed as ORNL Report #C-9-82:

-- "Mass Transport and Defect Properties in Silver Halides" by Prof. Laskar; and

-- "Diffusion of Potassium Ions in Silver Halides and Temperature

Dependence of the Formation Energy of Frenkel Defects" by Prof. Laskar and Cardegna.

J. R. Ray (Prof) and J. L. Reid (Univ of Ga) published "Higher-order Special Self-Adjoint Equations and Particle Dynamics" in Journal of Mathematical Physics, Vol. 24 (1983) 2433.

Plant Pathology and Physiology

L. W. Baxter Jr (Prof) and E. S. Hotchkiss (Former Grad Res Asst) published "Pathogenicity of Alternaria Tagetica on Tagetes" in Plant Disease, (November 1983).

Prof. Baxter and S. G. Fagan (Ag Sci Assoc) published "An Improved Technique for Maintaining Cultures of Ciborinia Camelliae Kohn in Vitro -- 1983" in The Camellia Journal, (November 1983).

Prof. Baxter, Fagan and P. A. Mitchell (Ag Sci Assoc) published "Influence of Camellia Scions Infected With and Without Virus, and Different Camellia Species as Stock on Grafting" in The Camellia Journal, (November 1983).

R. W. Miller (Ext Plt Path) published "DBCP -- Problems and Future Alternatives" in the Proceedings of the 31st Annual Convention of the National Peach Council (November 1983).

E. I. Zehr (Prof) and B. A. Jaffee (Former Vstg Asst Prof) published "Sporulation of the Fungus Hirsutella Rhossiliensis From the Nematode Criconemella Xenoplax" in Plant Disease, (November 1983).

Political Science

The following papers were presented

at the Southern Political Science Association meeting in Birmingham, Ala., Nov. 3-5:

-- "The Enduring Myth of New Federalism" by H. E. Albert (Prof);

-- "The Theological Dimensions of Presidential Leadership: A Classification Model" by C. W. Dunn (Prof and Hd);

-- "The Supreme Court in Periods of Critical Realignment" by W. Lasser (Asst Prof).

Professional Development

R. D. Elliott (Dir and Prof of Econ) and J. R. Huffman (Blue Cross/Blue Shield) have had an article, "The Impact of Right-to-Work Laws on Employer Unfair Labor Practice Charges," accepted for publication in Journal of Labor Research (Spring 1984).

Prof. Elliott presented three papers:

-- "Determinants of Representation Election Outcomes: The Case of the Textile and Apparel Industries" at the Atlantic Economic Conference in Philadelphia, Pa., Oct. 6-8;

-- "Niche Finding" and "Marketing of Courses and Services" at the American Assembly of Collegiate Schools of Business Seminar on "Management Development Programs in Business Schools: Get In? Stay In? Get Out?" in Seattle, Wash., Oct. 30-Nov. 1.

Prof. Elliott, an invited bi-monthly columnist for The Learning Connection magazine, has had two articles published in that column: "Outside Mailing List Rentals: Coping With the Duplication Problem" and "Renting Out Your Mailing List."

Sociology

R. J. Knapp (Prof) gave an invited lecture on the physician's response to perinatal death at the Annual Scientific Assembly of the S.C. Academy of Family Physicians in Myrtle Beach in November.

C. M. Sieverdes (Assoc Prof) presented a paper, "Juvenile Correctional Institutions in Two Southeastern States," at the annual meeting of the American Society of Criminology in Denver, Colo., Nov. 9-11.

Prof. Sieverdes published an article, "Coeducational Training Schools: Are They a Panacea for Juvenile Corrections?" in the Juvenile and Family Court Journal, Vol. 34 (August 1983) 15-20.

University Union

B. Mandicott (Prog Dir) published "Travel Center Update," a review of the travel industry within the collegiate market, in Programming Magazine (December), the trade magazine for the National Association of Campus Activities.

NOMINATING BALLOT
FOR COMMISSION ON CLASSIFIED STAFF AFFAIRS

CLEMSON UNIVERSITY

Nominee's Name: _____
First Middle Initial Last

College (if applicable): _____

Department/Office/Division: _____

Job Title: _____ Years at Clemson: _____

TO NOMINEE: Signing this form indicates your willingness to serve on the
Commission on Classified Staff Affairs if you are selected.

Signature

NOTES: Each person nominated must be a permanent classified employee of
Clemson University. An employee may be nominated more than once,
and each employee may nominate as many persons as he or she wishes.
(Make as many copies of this form as you need.)

PLEASE DETACH AND MAIL YOUR NOMINATING BALLOT(S) TO:

PERSONNEL DIVISION
ANDERSON HOUSE
CLEMSON UNIVERSITY
CLEMSON, SC 29631

JAN 16 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 102 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Jan. 13-20

WORKSHOPS AND SEMINARS

- 10-19 Mini-courses: "Risk Factors and Their Management;" "Diet and Its Relationship to Health and Fitness;" "Stress Management;" and "Getting Started in a Personal Exercise Program." Sponsored by YMCA. Call 654-2460 for more information.
- 19 Short Course: "S.C. Seed School." Annual update on production, conditioning and marketing of seed. Sponsored by S.C. Seedsmen's, S.C. Foundation Seed and S.C. Crop Improvement associations, Poole Agricultural Center Auditorium, 9 a.m.-4 p.m. Call 656-3004 for more information.
- 19 Seminar: "Distinguished Chemical Industry Business Seminar" with Charles Greiner Jr., administrative services manager of Union Camp Corporation. Sponsored by chemistry and geology and chemical engineering departments, Room 131, Brackett Hall, 4:30 p.m. Call 656-3472 for more information.
- 20 Lecture: "Rewarding Outstanding Teaching" by Tennessee Gov. Lamar Alexander. Sponsored by Strom Thurmond Institute and College of Education, Daniel Hall Auditorium, 7 p.m. Reception following in 108 Strode Tower. Free. Open to public. Call 656-4700 for more information.

EXHIBITS AND CONCERTS

- 10-30 Southern Abstractionists. An exhibition, organized by the University of Tennessee, of six southeastern artists. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday, 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 16-21 Union Art Gallery Short Course Display. Sponsored by University Union, loggia. Call 656-2461 for more information.
- 18 Clemson University Concert Series: The New York Renaissance Band. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students present activity cards, others present season tickets (\$20 adults, \$10 students) or tickets may be purchased at the door (\$6 adults, \$2 students). Call 656-3043 for more information.

U.S. News

U.S. News and World News is a weekly news magazine published by Time Inc. It covers a wide range of topics, including politics, business, science, and culture. The magazine is known for its in-depth reporting and analysis.

The magazine is published every week, except for a few issues that are combined. It is available in print and online. The print edition is published by Time Inc. and is distributed to newsstands and subscribers. The online edition is available at www.usnews.com.

The magazine is owned by Time Inc., a subsidiary of the New York Times Company. It is one of the most popular news magazines in the United States, with a circulation of over 1 million copies per week.

The magazine is known for its high-quality journalism and its focus on the United States. It provides a comprehensive overview of the country's current events and issues.

The magazine is also known for its coverage of international news. It provides a global perspective on the world's most important events and issues.

The magazine is a valuable resource for anyone interested in the United States and the world. It provides a comprehensive overview of the country's current events and issues.

The magazine is published by Time Inc., a subsidiary of the New York Times Company. It is one of the most popular news magazines in the United States, with a circulation of over 1 million copies per week.

CU EVENTS (Cont.)

DRAMA AND FILMS

- 12-13 "Monty Python." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 15 "Kelly's Heroes." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 17 Performing Artist Series: "Hamlet" performed by the National Shakespeare Company. Sponsored by University Union and Alumni Association, Tillman Hall Auditorium, 8 p.m. Individual tickets \$4, season tickets available. Call 656-2461 for more information.
- 19-22 "Raiders of the Lost Ark." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 14 Basketball: Baptist, here, men, 7:30 p.m.
- 14 Basketball: Maryland, here, women, TBA.
- 14 Swimming: Virginia, here, men and women, 1 p.m.
- 17 Basketball: Duke, here, women, TBA.

OTHER EVENTS

- 9- March 15 "Dancin' Aerobics," a total fitness program of choreographed movements to music. Sponsored by the YMCA. Call 654-2460 for more information.
- 12-13 Dance. "The Shake," new beat dance music. Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information.
- 13 Ventriloquist, Jeff Dunham. Sponsored by University Union, Tillman Hall Auditorium, 8-11 p.m. Advance tickets \$3.50 at Union Box Office or \$4 at the door. Call 656-2461 for more information.
- 13 Ice skating trip sign-up deadline. Sign up at Union Information Desk, or call 656-2461 for more information.
- 14 Ski trip to Sugar Mountain, N.C. Sponsored by University Union, 4 a.m.-10 p.m. Sign-up and details at Union Information Desk, or call 656-2461 for more information.
- 14 Pogo Party, new wave fashion show and music. Sponsored by University Union, Edgar's, 8 p.m. Free.

and the same day the following was received from the
Hon. Secy of the Navy, dated 10th Nov. 1870.
The undersigned has the honor to acknowledge the receipt of
your letter of the 10th inst. and in reply to inform you that
the same has been forwarded to the proper authorities for their
consideration. The undersigned has also the honor to inform you
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CU EVENTS (Cont.)

- 15 Ice skating. Sponsored by University Union, Textile Hall, Greenville, 5-10 p.m., \$6. Sign up at Union Information Desk, or call 656-2461 for more information.
- 16 Carolina Journal. Ted Wallenius, a professor of mathematical sciences, discusses political polling. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 16 CPR Short Course sign-up deadline. Sponsored by University Union. Sign up at Union Information Desk, or call 656-2461 for more information.
- 16 "Men's Fitness," a program adapted to all fitness levels with classes running through May. Sponsored by the YMCA. Call 654-2460 for more information.
- 18 ACU-I Backgammon Tournament. Sponsored by University Union, Sky light Lounge, 7:30-10 p.m., \$1. Call 656-2461 for more information.
- 18 Darts Tournament. Sponsored by University Union, Edgar's, 7:30-10 p.m., \$1. Call 656-2461 for more information.
- 19 Pingpong Tournament. Sponsored by University Union, Edgar's, 7:30 p.m., \$1. Call 656-2461 for more information.
- 19 Sign Language Course sign-up deadline. Sign up at the Union Information Desk, or call 656-2461 for more information.
- 19-20 "Heartfixers" rhythm and blues band. Sponsored by University Union, Edgar's, 9 p.m., \$2. Call 656-2461 for more information.



JAN 23 1984

ATCHLEY, MAXWELL, ULBRICH RECAP SEMESTER'S HIGHLIGHTS

Two presidents and the provost Dec. 19 recapped the fall semester for the faculty and staff and agreed that, while many challenges still lie ahead, autumn was a productive, successful season for the University.

But before the speeches to the general meeting in Tillman Auditorium began, Greenwood County Extension agent leader Thomas J. Bryson received the 1983 Alumni Distinguished Public Service Award from George Moore, executive officer for alumni relations and resources development.

The award carries a \$1,500 stipend and recognizes Bryson's outstanding service during his 29 years with Extension in the Greenwood area.

His accomplishments include helping to set up a farmers market that serves seven counties, promoting educational efforts on marketing forest products, helping to organize the five-county Palmetto Marketing Association for cattlemen, and working to establish an arboretum outdoor science classroom and a nursery at the Regional Correctional Institute near Greenwood.

Ulbrich underlines cooperative ventures

Faculty Senate President Holley Ulbrich led the speaking trio with a summary of Senate activities since she took office last spring.

She said the absence of "intense and controversial issues" thus far in the



Bryson

academic year "has enabled the Senate to work with the administration on cleaning up a number of important concerns [lacking in] headline quality."

She listed faculty evaluations, Faculty Manual revisions, grievance procedures, Athletic Council reorganization, President's Council restructuring, and Highway 93 crosswalk safety as issues that the Senate and the administration have reached some agreement on or are currently working on together.

On the other hand, she said, University long-range planning turned out to be an issue "on which [the Senate and the administration] finally had to agree to disagree." The topic is "on ice for a while," she said.

Also, the administration was not swayed by Senate doubts about the site for the new chemistry building, she said. The building will go up, as planned, behind Sarrine Hall.

Senators are "still struggling" with the question of plus/minus grading,

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Continued from page 1.

Ulbrich said, but they've decided to leave the consulting, patent, copyright, and library acquisitions policies alone for now. "Sometimes we examine an issue and decide it is best left as is," she said. "I think that is the conclusion that emerged from our review of [those policies]."

Issues of growing concern, she said, include how recipients of the annual Outstanding Research Scientist Award are chosen and the condition of Bowen Field.

One of the "sweet if minor victories" of the year, Ulbrich said, came when the Faculty Senate and the Student Senate successfully "mounted a combined onslaught" against positioning campus traffic barricades so as to prevent bicycle passage.

Bikers could get by on the sides of the roadblocks in front of Brackett Hall and behind the library until this year, she said, when the barricades were stretched to stop all through traffic. "Where individual battlers accomplished little, the combined voices of two senates won the battle on behalf of dedicated bikers," Ulbrich said.

Provost says thanks for scholarship support

Provost David Maxwell began his remarks to the meeting by making "a very preliminary and sketchy report" on the current drive to raise scholarship contributions from the faculty and staff.

"The only information that I have is that 46 members of the faculty and staff have signed up for payroll deductions in support of the drive," he said. "In addition, I know that there have been a number of one-time gifts.

"I don't know what the payroll deductions amount to monetarily, and I don't know either the number of gifts or what they amount to monetarily."

"Nonetheless," he said, "I believe the single indicator that I have is very encouraging. I am pleased that so many of our faculty and staff are supporting the scholarship drive."

The provost also told the assembly: "I might add that I don't want to know what individuals are giving either in the form of payroll deductions or in gifts."

[Watch the Newsletter for more complete reports on the success of the faculty/staff scholarship drive.]

On another topic, Maxwell reported that complaints during the semester about faculty cancellation of classes before and after holidays appear to be "almost totally unfounded."

He said he suspects that isolated complaints about faculty members not being available to their students outside of class are "similarly lacking in substance."

"I hear many compliments from students and parents about the consideration you show to our students," he said, "and for this, too, I congratulate and thank you."

Maxwell called state approval for the University to establish a Ph.D. program in computer science "one of the semester's brighter pieces of news." The program will begin in the fall.

"On a less happy note," he said, "our proposal to offer a part of our nursing program in Greenville suffered rough sledding, but it appears that we may be able to offer a program in Greenville in cooperation with another institution, if we choose to do so."

He said he is "hopeful" about the 1984-85 budget, which might include a 7 percent increase in instructional funds for unclassified personnel. But he cautioned that, because of budget complexities and salary-related requirements, such an increase would not mean an

across-the-board, 7 percent hike in faculty salaries.

"Nonetheless," he said, "the [budget] outlook is the best that it has been since I joined the Clemson family -- five budget cuts ago."

President reports on numerous issues

Following the provost to the lectern, President Bill Atchley added his own optimistic comments about next year's budget.

The president noted that the House Ways and Means Committee is recommending a three-year phase-in of full-formula funding for higher education. That would mean an additional \$1.5 million for Clemson in the coming year.

At present, he said, the University's education-and-general appropriation will be about \$49 million -- up about \$3 million from this year's amount.

The proposed public service appropriation for 1984-85 is about \$1 million above the current-year figure.



The Clemson University Newsletter is published for Cliff Fain, a professor of ceramic engineering, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Turning to the University's private fund-raising efforts, Atchley said he is "very encouraged" about the progress in that area, and he drew attention to recent major gifts to the College of Engineering and to the success of the Thurmond Center drive.

He said to expect an announcement in a few weeks of a \$175,000 pledge for the Thurmond Center from a University Trustee.

The national search for a vice president for institutional advancement is on schedule, Atchley said. The search committee is now wrapping up its interviews with candidates selected from among 86 applicants and nominees, he said, and should have a recommendation for him within a matter of weeks.

Quickly touching on a number of other topical campus issues, the president briefed the faculty and staff on:

-- President's Council restructuring. The committee studying recommendations on this hopes to have a report ready in time for the Council's January meeting, he said.

-- a Commission on Classified Staff Affairs. Atchley said he has approved adding the commission to the President's Council and is accepting nominations for the 13 classified staff members he will appoint to the commission. (See the Jan. 11 Newsletter for details.)

-- a health/wellness program. The committee developing the plan hopes to have recommendations ready by March, he said.

-- the Visitors Center. An open house should be held early this semester, he said.

-- "We're Proud to Say Clemson." About 4,200 people attended the nine shows around the state during the fall. Atchley said the response was so posi-

Continued on page 4.

Continued from page 3.

tive that the University is considering making this kind of presentation a regular event.

-- Highway 93 crosswalk safety. The president said he has asked the state highway department to add an all-red phase to the traffic lights. This means all the lights in all directions would turn red when a pedestrian pushed the "Walk" button.

-- the new chemistry building. Construction should begin in April, he said.

-- the Clemson Industrial Research Authority. He said the first meeting of the authority's board of directors would be in January.

-- football probation. He said the administration is working on a report to the Atlantic Coast Conference.

-- the faculty/staff scholarship drive. The president thanked the faculty and staff for joining in the effort to meet the University's critical need for more academic recruiting scholarships, and he added:

"Whatever support you can give will be appreciated, and it is entirely voluntary. In no way, pro or con, will your level of participation [in the current faculty/staff scholarship drive] affect your employment at this university."

Atchley concluded his remarks by addressing the importance of top-quality education in South Carolina.

He noted that the Commission on Higher Education has endorsed Gov. Dick Riley's proposals for improving primary and secondary education and added that higher education must not be forgotten along the way.

Before the meeting adjourned, the faculty voted 139 to 109 to support a tax increase to fund the governor's plan.



Moore



Skelton

VISITORS CENTER 'MOVING ALONG'; STAFF MEMBERS NOW ON BOARD

Visitors to the University will soon be receiving a royal welcome, says John Allen, director of Visitor Programs for University Relations.

"Plans for the opening of the University Visitors Center are moving right along," says Allen, in announcing the appointments of Center manager Janis Moore and assistant manager Joy Skelton.

Located in Room 103 of Tillman Hall, the Center, will be a "Clemson showcase" and service focal point for campus visitors, says Allen.

Moore and Skelton, both Clemson graduates, will inform and educate visitors about the University through commentary, audio-visuals, guided tours and other special orientation programs and publications, he says. The staff will also promote University programs and achievements.

All this, says Allen, will help to build a base of support for Clemson among its visitors.

"The Center's primary purpose," he says, "is to help the public better understand, appreciate and, therefore, support Clemson's mission in contributing to a sound and growing economy for the state."

One of the Center's key services, says Allen, will be to provide institutional orientation programs for various

visiting groups, such as the Board of Visitors and similar special guests of the president, the Board of Trustees and other key officials.

"We also want to provide this service to other groups, such as participants in the various continuing education programs and seminars held on campus throughout the year," says Allen. "We really want to serve any group or individual who would benefit from a general orientation program.

"For example, we would expect the Visitors Center to be a key stop for prospective students and their parents while visiting campus."

Moore, who graduated here with a bachelor's degree in English, earned her master's in English education from the University of Virginia.

As a Clemson student, she was a varsity cheerleader, a student senator, a member of Chi Omega Sorority, and "Miss Clemson."

She returns here from Charlottesville, Va., where for three years she was training specialist-coordinator for the Eastern Regional Office of the State Farm Insurance Company. Before that she taught high school English and composition for 14 years.

Skelton earned her bachelor's degree in political science here and has held temporary positions in the Registrar's Office and the IPTAY office.

CEE LEAVES RHODES, TAKES UP AT EARLE

"Continuing Engineering Education doesn't live here anymore."

That's what you might hear if you go looking for CEE at Rhodes Engineering Research Center.

CEE has moved from Room 104 in Rhodes to Room 223 in Earle Hall.

The telephone number, 656-3308, remains the same.

PROFESSOR OF GERMAN HELPS TO LAUNCH INTERNATIONAL INTERNSHIP PROGRAM

When Pepsi tried to market its popular soft drink in China, the company hit a dead end. Seems the "Come Alive" theme, when translated into Chinese, means "resurrecting one's ancestors."

Avoiding such fiascos takes improved communication, says Pat Wannamaker, an associate professor of German who has helped to establish here the International Cooperative Education Program for upperclassmen and graduate students.

As director of the new program, Wannamaker says it will provide jobs for students with international businesses either here or abroad.

"It should give students a competitive edge when they enter the job market, regardless of whether they are engineers, agricultural economists or specialists in marketing," she says.

Unlike the domestic cooperative education program in which students alternately work and go to school throughout their college careers, the international program will be a one-time internship, with students choosing between a summer-fall or a spring-summer schedule.

Serious business errors can be avoided if employees are trained in the language and customs of the country in which they are working, Wannamaker says.

"Chevrolet ran into a problem trying to market the Nova in Puerto Rico. Only after their initial effort was unsuccessful did executives realize that 'Nova'

Continued on page 6.

Continued from page 5.

sounds like 'won't go' in Spanish."

But Rolls-Royce was more fortunate, she says. "Silver Mist" sounded like a perfect name for competing with the Mercedes Benz in Germany. But before the English adopted that name, however, they learned that "mist" means "manure" in German.

The new co-op program is being launched with a \$34,318 grant from the U.S. Department of Education.

In addition to Wannamaker, members of the grant team are Marty Williams, director of Cooperative Education, and Parr Rosson, an assistant professor of ag economics and rural sociology.

Wannamaker says she would like to encourage deans, department heads and faculty members to announce this program to their students.

Students who are interested in the program should call Williams at 656-3150 or Wannamaker at 656-3421.

ADD ONE MORE HOLIDAY
TO YOUR 1984 CALENDAR

An extra holiday emerged when S.C. Gov. Dick Riley declared Dec. 24, 1983, a legal holiday for state employees and authorized its observance on Dec. 23.

Since the University was already scheduled to be closed on Dec. 23, that 1983 holiday will be observed on Nov. 5, 1984.

Here's the new schedule: Spring Break, March 22-23; Independence Day, July 4; Fall Break and General Election Day, Nov. 5-6; Thanksgiving, Nov. 22-23; and Christmas, Dec. 24-28.

UNIVERSITY RESEARCH GRANT COMMITTEE
APPLICATIONS FUNDED

November 11, 1983

The University Research Grant Committee has announced funding for 32 faculty research proposals totaling \$34,005. The total represents a decrease from last year's \$40,560 for 48 research proposals. Here is a complete list of the funded proposals.

John L. Idol, Jr. (English)	Textual Editing of Thomas Wolfe's <u>Mannerhouse</u>	\$ 650
Philip B. Burt (Physics & Astronomy)	A Unified Theory of Ultra Nuclear Processes	\$ 900
Brian E. Lee (Civil Engineering)	Wind Forces on High-Set Coastal Residences	\$ 3,100
John B. Romeiser (Languages)	Eyewitnesses in Spain: The Spanish Civil War (1936-39) as Chronicled by Twentieth Century Fox Movietone News	\$ 1,100

Loretta Carillo (English)	Dance in America: A Reference Guide	\$ 900
Johannes Holschneider (Architectural Studies)	The Influence of the Postwar Dissemination of the Bauhaus Ideas on Contemporary Architecture	\$ 600
Fertac H. Bilge (Interdisciplinary Studies)	Peritoneal Oxygenation	\$ 1,500
John W. Johnson (History)	Research on the Nuclear Liability Hearings of Two Congressional Committees	\$ 800
Henry Lewis Suggs (History)	Cases of William Harper and Dorothy Skaggs	\$ 1,200
John W. Ryan (Sociology)	The Effect of Government Regulation on Cultural Programming: A Case Study of the BBC	\$ 1,800
David W. Grigsby (Management)	A Survey-based Study of Volunteer Motivation	\$ 1,000
Donald E. Beasley (Mechanical Engineering)	Structural, Fluid Flow and Energy Transfer Characteristics of Packed Systems of Particles	\$ 1,500
Martin A. Davis (Architecture) R. Del Delumyea (Chemistry)	Determining Air Quality in Passive Solar Residences	\$ 1,600
David G. Heckel (Biological Sciences)	Multiple Paternity and Salamander Mating Systems	\$ 1,000
Vera B. Anand (Engineering Technology)	A Survey of Computer Graphics Software for Engineering Education	\$ 1,000
Richard J. Calhoun (English)	T. Addison Richards, Forgotten Editor, Writer, Printmaker	\$ 625
John R. Wagner (Chemistry & Geology)	A Study of the Geology of Table Rock State Park	\$ 360
Thomas Alvin Hughes (Microbiology/ Agronomy & Soils)	Cloning and Expression of the Symbiotic Attachment Genes of <u>Rhizobium japonicum</u> in <u>Escherichia coli</u>	\$ 1,500
Ronnie L. Thomas (Food Science)	Safety Aspects of Herbs and Spices	\$ 1,500

Continued on page 8.

Continued from page 7.

Paul B. Hamel (Biological Sciences)	Comparison of Winter Bird Populations of Old-Growth and Mature Second-Growth Bottomland Hardwood Forests	\$ 1,200
William F. Shughart (Economics)	Non-Binding Price Ceilings: An Experimental Approach	\$ 1,000
C. R. Dillon (Biological Sciences)	Biological Control of Brazilian Elodea, an Aquatic Weed	\$ 500
William Lasser (Political Science)	Crisis and the Supreme Court: Judicial Politics in Periods of Critical Realignment	\$ 960
Carolyn L. Ellison (English)	An Annotated Clear-Copy Edition of Thomas Davies' 3-Volume <u>Dramatic Miscellanies</u> (1783-84)	\$ 400
S. Imtiaz-ul-Haque (Mechanical Engineering)	Development of a Computer-Aided Design Procedure for Forging Die Design Using a Micro-Computer	\$ 1,000
John C. Richardson (Elementary and Secondary Education)	Changes in Wechsler Measures of Intellectual Ability of Educable Mentally Retarded Subjects Before and After the Seventeenth Birthday	\$ 500
Robert H. Hunter (History & Visual Studies)	Museum Feasibility Study for Space Age Exhibit	\$ 1,350
Ralph E. Welton, Jr. (School of Accountancy)	Income Measurements vs. Prior Cash Flows: Which Will Allow the Closer Assessment of Future Cash Flows to the Enterprise?	\$ 1,100
Thomas Tisue (Chemistry and Geology)	Testing of an Automated Sampler for Use at the Sediment-Water Interface	\$ 1,000
J. David Woodard Stephen Wainscott (Political Science)	Second Generation Racial Discrimination in Southern School Districts	\$ 700
Carol M. Ward (English)	Mae West: A Bio-Bibliographical Study	\$ 1,260
Louise W. Wickliffe (Nursing)	Maternal Adaptation During the Fourth Trimester	\$ 400

JAN 23 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 102 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Jan. 20-27

LECTURES AND EXHIBITS

- 20 Lecture: "Rewarding Outstanding Teaching" by Tennessee Gov. Lamar Alexander. Sponsored by Strom Thurmond Institute and College of Education, Daniel Hall Auditorium, 7 p.m. Reception following in 108 Strode Tower. Free. Open to public. Call 656-4700 for more information.
- 23-28 International Student Council Culture Display. Sponsored by University Union, loggia. Call 656-2461 for more information.
- 25 English Hour lecture: "Fiction in Progress" by David Tillinghast, an assistant professor of English. Sponsored by English department, Strode Tower Lounge, 8 p.m. Open to public. Free. Call 656-3151 for more information.
- 10-30 Southern Abstractionists. An exhibition, organized by the University of Tennessee, of six southeastern artists. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday, 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

FILMS

- 20-21 "Raiders of the Lost Ark." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. \$1.50 with University I.D. Call 656-2461 for more information.
- 22 "Silent Running." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 26-28 "Blue Thunder." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Free with University I.D. Call 656-2461 for more information.

SPORTS

- 21 Basketball: Virginia, here, women, 11:30 a.m.

CU EVENTS (Cont.)

- 21 Basketball: Virginia, here, men, 2 p.m.
- 21 Wrestling: Tiger Duals, all day.
- 22 Swimming: Duke, here, men and women, 2 p.m.
- 23 Basketball: Pittsburgh, here, women, 7:30 p.m.

OTHER EVENTS

- 19-20 "Heartfixers" rhythm and blues band. Sponsored by University Union, Edgar's, 9 p.m., \$2. Call 656-2461 for more information.
- 21 "Advanced Dungeons and Dragons Team Tourney." Sponsored by University Union, Palmetto Ballroom, 10 a.m. Sign up at Union Information Desk. Call 656-2461 for more information.
- 23 Carolina Journal. Mark Steadman, a professor of English, talks about life in the Soviet Union and his recent trip to Russia. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 23 Room change. Submit application to Central Housing Office, Room 200, Mell Hall. Call 656-2295 for more information.
- 23 ACU-I Chess Tournament. Sponsored by University Union, Skylight Lounge, 7:30-10 p.m. Call 656-2461 for more information.
- 23-30 Affiliate Artist: Ohad Naharin, modern dancer. Call 656-2461 for more information.
- 23-24 Short Course: CPR, 7-10 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 24 Chamber Music Series: Denise Parr, piano recitalist. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 24 College Bowl Intramurals. Sponsored by University Union, Senate Chambers, 7:30-9:30 p.m. Call 656-2461 for more information.
- 24-26 Workshop: "Engineering Application of Microcomputer Spreadsheets." Sponsored by Continuing Engineering Education. Call 656-3308 for more information.
- 25 ACU-I Pool Tournament. Sponsored by University Union, gameroom, 7:30-9 p.m., \$1. Call 656-2461 for more information.
- 26 Short Course: Sign Language. Sponsored by University Union, 6:30-8:30 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.

CU EVENTS (Cont.)

- 26 "Lahn & Loftin" rock and roll duo. Sponsored by University Union, Palmetto Ballroom, 8 p.m. Call 656-2461 for more information.
- 27 1984 Presidential Ball. Sponsored by University Club, Fike Recreation Center, 9 p.m. Tickets, \$10, may be purchased at the Alumni Center. Call 656-2345 for tickets or 656-3055 for information.

THE UNIVERSITY OF CHICAGO
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JAN 25 1984

SIRRINE HALL DISASTER LEAVES TRAIL OF FAITH IN EMPLOYEES

The flooding came and went, leaving behind a trail of devastation: crumbled ceilings, soaked carpets, warped floors, damaged equipment. But it also left, above and beyond all the ruin, a trail of faith.

"I hadn't thought that something positive could come out of a disaster such as this," says Ed Vaughn, director and professor of textiles, "but the realization of the spirit and the dedication of the people here at Clemson . . . it was a beautiful thing."

That spirit and dedication resulted in a one-week transformation of Sirrine Hall, which Dec. 25 was ravaged by flood-

ing that destroyed the ceilings and floor tiles and left water-damaged equipment on all four levels of the west end of the building.

The destruction came little more than a week before students were to return for the spring semester, and the aftermath presented something of a challenge to employees involved in the clean-up.

"The faculty and staff here were dedicated to getting things cleaned up and being prepared by the time the students came back," says Vaughn. "And we were ready for them."

Being prepared, he says, took an "exceptional amount of coordination" from all areas of the University

Continued on page 2.



COLD, WET, AND MESSY -- That's the way it was when employees of the physical plant were called out at 6 a.m. Dec. 26 to help in cleaning up the trail of waste left by the flooding in Sirrine Hall. T. C. Mattress, a supervisor in the custodial department, was one of more than 50 employees who answered the call for help.

Continued from page 1.

involved in the clean-up efforts.

"The support of the people at the Physical Plant and the technical staff here was most exceptional. My hat's off to all who helped to get this back in shape."

Physical Plant director Walter Stone says the flooding occurred when a sprinkler in the west-end attic of the fourth floor froze and burst sometime around 6 or 7 p.m. Christmas night.

A security guard, informed of the flooding, called Stone, who in turn called personnel from the electrical and plumbing departments. They were joined by members of the custodial staff and by employees from the carpentry and sheet metal shops.

"They were in all stages of their Christmas activities when we called," says Stone. "Some were just sitting down to eat their Christmas dinner, and others were entertaining guests."

All who were called, he said, immediately dropped what they were doing and came out to join in the clean-up effort, working until midnight and starting again the next day by 8 a.m.

Stone says there was extensive flooding on all four levels of the west end and, to a lesser extent, on the third floor of the east end of the U-shaped building.

Had the fire department not responded so promptly to turn off the sprinkler system, he says, even further damage would have occurred.

"It was literally raining in some of those offices and labs," he says. "The water went straight from the attic to the basement, with the damage getting more extensive the lower it went."

The downward thrust of the flooding was hastened, in part, he says, by the

wide cracks in the tongue-and-groove hardwood flooring under the carpet and tile. Thus, most of the ceiling and some of the floor tiles on all levels had to be replaced.

"The maple floors in the textile labs had some warping, but we'll have to wait until they have dried out to determine the extent of that damage."

By Dec. 28 most of the damaged ceiling and floor tiles had been replaced, but there were other losses that will be felt throughout the year.

"The most devastating loss," says Vaughn, "was that of the fiber samples we had collected from throughout the country. We were evaluating them through a computer measurement system."

"Three or four of the faculty were about half way through the two-year project. They had spent all of last year getting the project set up, so this really hurt."

Plus, says Vaughn, all the equipment and machinery on the four levels was drenched with the flooding.

"Every piece of equipment will have to be taken apart and the metal parts decorroded," he says, "but we'll be doing it in phases so it won't interfere with the teaching process."

As for the cost of the repairs, Stone says he does not yet have an estimate. "It will be primarily hourly costs," he says.

But some costs cannot be paid. How, for instance, do you compensate employees who unselfishly spent a part of their Christmas holidays in getting SIRRINE back in shape?

"You can't pay people to sit around and wait for something like this to happen," says Stone. "You just depend on their good will and their dedication to their jobs."

PROVOST RESPONDS TO PETITION
REGARDING PHASE-OUT OF RUSSIAN

Insufficient enrollment, said Provost David Maxwell, is the reason the University is phasing out its courses in the Russian language.

Responding to faculty petitions urging him to reverse the decision to drop Russian, Maxwell said he shares the petitioners' regret that Russian no longer will be offered here.

But, he said, the University can't afford to offer courses that students either won't take or can't take because of curricular restrictions.

The decision to phase out Russian was made in the fall of 1982, said liberal arts Dean Bob Waller, based on consultation with the languages department.

Total enrollment in the three Russian courses (101, 201 and 398) offered that semester, he said, was 18. In the fall of 1981, total enrollment in the three courses was 15, he said.

He said that even in its "heyday" the language enjoyed enrollments "only slightly above" those levels.

This semester, Waller said, two students are enrolled in Russian 202 and one is taking Russian 398.

Here is the full text of Provost Maxwell's statement regarding the phase-out of Russian:

"Recently I received petitions from more than a hundred members of the academic community deploring the fact that we are phasing out instruction in the Russian language.

"Russian is, of course, a very important language, and I, too, deplore its demise. I would much prefer that we offer not only the Russian language but the Japanese and Chinese languages as well. All are important to us and will be even more so in the future.

"Unfortunately, we cannot afford to offer courses that our students either do not wish to take or cannot easily take because of the restrictions of their curricula. Our inability to do so should not be viewed as a lack of appreciation of the merits or importance of the area or discipline in question."



The Clemson University Newsletter is published for Roxie Hicks, a custodial worker at Fike Recreation Center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

TRUSTEE BOOSTS
THURMOND CENTER FUND

A major gift from a life member of the Board of Trustees and his family boosts the fund-raising effort for The Strom Thurmond Center significantly closer to its \$10.9 million goal.

Trustee Paul W. McAlister and his family have contributed \$175,000 for construction of The Thurmond Center, President Bill Atchley announced this week.

"This generous gift from Mr. and

Continued on page 4.

Continued from page 3.

Mrs. McAlister is important not only because of the money involved," Atchley said, "but also because it shows the kind of commitment and leadership Clemson people are giving to the Thurmond project.

"This kind of support from within the Clemson family is really the foundation for this whole fund-raising effort. On that solid base, we're building support from across the country from people who are impressed by the quality of Clemson programs and the dedication of Clemson people."

Atchley called McAlister "one of those across-the-board Clemson supporters important to all our programs -- from the Loyalty Fund and IPTAY to special campaigns. Without that kind of total support, we couldn't accomplish half what we do."

McAlister, a Laurens attorney and businessman, is a former chairman of the Board of Trustees.

A recipient of the Alumni Distinguished Service Award, he has been a strong and consistent supporter of Clemson since his graduation here in 1941.

In addition to giving his time and talents to the University in service on the Board of Visitors and the Board of Trustees and in numerous other capacities, he's contributed to the Loyalty Fund for 28 consecutive years -- since it was established in 1956.

He participated substantially in the Clemson University Foundation's campaign for the Robert Cook Edwards Endowment for Excellence in Science and Technology, has been an IPTAY member 41 of its 50 years, and is an IPTAY scholarship donor.

The Thurmond Center fund-raising drive, now in its national stage, ended 1983 with more than \$4 million in gifts and pledges.

MARCH 1 IS APPLICATION DEADLINE FOR PROVOST RESEARCH AWARDS

Faculty members who want to be considered for 1984 Provost Research Awards must submit applications to the Office of University Research by March 1.

Twenty-five of these \$2,000 awards are funded by the University each year to stimulate the initiation and completion of research activities.

Applications for less than \$2,000 are not considered.

1982 and 1983 awardees may not apply because a faculty member may receive only one Provost Research Award within any five-year period.

The University Research Grant Committee will make awards after a blind, non-peer review of the applications.

Research objectives, feasibility and significance, as well as compliance with application instructions, will be major considerations in the review.

Funds, which must be spent during the July-June 1984-85 fiscal year, may not be used before July 15.

The money may be used to pay for any research-related expense consistent with state and University fiscal procedures, except publication, computer and meeting costs.

Funds may be used as salary only during the three-month summer pay period.

Awards will be made by April 15. Each recipient will have to file a report with the committee explaining the use of funds, research accomplishments and plans for continuing or completing the research.

Application forms and instructions are available from the Office of University Research, E-102 Martin Hall. Call 656-2375 for more information.



WHICH WAY'S UP? -- Affiliate Artist Ohad Naharin, internationally known dancer and choreographer, will be stretching his supple body beyond familiar limits in a two-hour recital and informance (an informal presentation in which the artist establishes a dialogue with the audience) Jan. 29 at 3 p.m. in Tillman Hall Auditorium. Naharin, who began his dancing career with the Bat Sheva Dance Company in Israel, has performed throughout the United States, Europe, the Soviet Union and Japan. Naharin is noted for his unique movement in dance and is said to bring to the art form a powerful vulnerability that softens, not weakens, its strength. Tickets for the event, which is sponsored by the NCR Corporation, are \$2.50 and may be purchased in advance at the University Union Box Office or at the door.

EDGAR'S AVAILABLE FOR CLASSES AND PARTIES

Next time you get ready to show your class a film or to party with your club or organization, you may want to call on the management of Edgar's for help.

Beginning this semester, Edgar's, the University Union's night club, is available for use by faculty members and chartered University organizations for film presentations and club parties.

Edgar's will provide a large screen TV and sound reinforcement for showings of educational films, but you'll have to bring your own projection equipment.

Films may be shown on Monday, Tuesday and Wednesday afternoons. Arrangements must be made two weeks in advance.

Chartered University organizations may rent Edgar's on Saturday nights for a \$50 fee plus \$5 per hour. A host or wet bar will cost you \$50, plus \$50 more for each additional keg.

Edgar's will supply a bartender, a doorman, and a basic stereo system, but your group will have to provide an additional doorman.

No coolers or alcoholic beverages may be carried into Edgar's, and your organization will be held responsible for any damages that occur during the party.

A \$25 non-refundable deposit will be required seven days before the party, which should be scheduled at least two weeks before the deposit deadline.

To schedule a film showing or a party, call 656-2156 or 656-2461.

CELL REPAIR MAY BE KEY
TO CANCER SUSCEPTIBILITY

John and Joe could pass for brothers -- same age, same race, same build. But there is one small -- make that microscopic -- difference.

Expose both men to everyday radiation and John's cells will repair themselves five times faster than Joe's. And a physicist whose work proves such differences exist wonders if it means Joe is more likely to get cancer.

Lyndon Larcom, a professor of physics and microbiology, and Steve Freeman, an instructor of microbiology, are conducting white blood cell studies that show that some people are much more efficient than other humans at repairing radiation-damaged DNA, the genetic blueprint of living cells.

The researchers say the findings could ultimately lead to a simple blood test to determine susceptibility to cancer.

A theory that DNA repair may be related to cancer makes the variability factor discovery significant, Larcom says.

Carcinogens, or cancer-causing agents, act by damaging DNA, and an error in repair of the damage can make cells mutate and lose the ability to control division. Uncontrolled cell division results in the development of tumors.

"The question is: Does an inefficient repair system make a person more susceptible to cancer?" says Larcom.

"Before we could look for a correlation, we had to be sure people actually do vary in their abilities to do repair. If there were no difference, the theory wouldn't hold water."

The body uses enzymes to repair damage to DNA. Without this repair system, humans wouldn't be able to survive

because DNA damage occurs routinely.

To monitor the repair mechanism, Larcom and Freeman take blood samples from people chosen at random and isolate white blood cells.

The blood donor's own serum is used to grow cells because the traditional cell culture methods that use animal serum allow too much room for error, Larcom says.

The isolated white blood cells are damaged by exposure to ultraviolet light or chemical carcinogens. Radioactive tritium is added to the damaged cells before the repairing enzymes go to work.

"Adding radioactive material lets us measure how much repair has taken place," Larcom says. "After several hours, we measure DNA radioactivity. The more radiation taken in, the greater the repair."

The tests show that some people have repair rates up to nine times higher than others, he says.

Larcom and Freeman are now testing different agents to see how they affect cell repair. Preliminary tests show that adding the human hormone interferon boosts cell repair activity while exposure to known cancer-causing agents dramatically decreases repair.

If a definite link between DNA repair efficiency and cancer susceptibility is established, the researchers say, pinpointing high-risk patients could be as simple as taking a blood sample.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff appear in the last Newsletter each month.

Chemistry

R. A. Abramovitch (Prof) published a review of the book "The Fischer Indole Synthesis" by B. Robinson (Wiley Publishers) in the Journal of Medicinal Chemistry 26 (1983) 1795.

Prof. Abramovitch gave a seminar, "Aryloxypyridinium Salts: Useful Synthesis," at the University of Konstanz in West Germany, Oct. 20.

Prof. Abramovitch gave a series of lectures in Germany in October: at the University of Cologne (24th); at the Max-Planck-Institute for Radiation Chemistry at Mulheim a. der. Ruhr (25th); at the Max-Planck-Institute for Medicinal Chemistry in Heidelberg (26th) and at the University of Giessen (27th).

Prof. Abramovitch gave the following invited lectures:

-- "Enium Ions: Generation and Synthetic Applications" at Sandoz in Basel, Switzerland, Oct. 19; at Philipps University in Marburg, West Germany, Nov. 21; and at the University of Erlangen-Nurnberg, Nov. 22;

-- "Aryloxypyridinium Salts: Useful Synthons" at the University of Munich in West Germany Nov. 7 and at Hoffman-LaRoche in Basel, Switzerland, Nov. 14;

-- "Sigmatropic Rearrangements of Heteroaromatic N-Oxides" at the University of Stuttgart, Nov. 8;

K. Dill (Asst Prof), M. E. Daman (Grad Stu), R. L. Batstone-Cunningham (Vstg Instr) and R. E. Hardy (Grad Stu) published a paper, "¹³C-NMR Spectral Study of ¹³C-Reductively Methylated Glycopeptides Derived From Glycophorin A," in the International Journal of Biological Macromolecules, 5 (1983) 371-373.

Prof. Dill presented a seminar, "Structural Studies of the MN Blood Group Determinants," to the biological

sciences department here Dec. 8.

J. W. Huffman (Prof) published two reviews: "Organic Chemistry: A Background for the Life Sciences" by G. W. Stacy in Journal of Chemical Education, 60 (1983) A321; and "Metal Ammonia Reductions of Cyclic Aliphatic Ketones" in Accounts of Chemical Research, 16 (1983) 399.

Prof. Huffman published "Solving the Reduction Puzzle of Sterically Hindered Ketones" in Industrial Chemical News, 4, No. 12 (1983) 32.

The following papers were presented at the Southeastern Regional Meeting of the American Chemical Society Nov. 9-11 in Charlotte, N.C.:

-- "Synthesis of (+)-Isocelorbicol" by Prof. Huffman, R. C. Desai (Res. Assoc/Asst Prof) and G. F. Hillenbrand (Grad Stu);

-- "Synthetic Approaches to the Taxane Diterpenes" by Prof. Huffman and A. V. Satish (Grad Stu); and

-- "Synthetic Approaches to Polyhydroxyagorofurans" by Prof. Huffman and P. C. Raveendranath.

A. R. Pinder (Prof) published "Pyrrolidine, Piperidine and Pyridine Alkaloids" in Specialist Periodical Reports, 13 (1983) 44.

Civil Engineering

R. H. Brown (Prof and Hd) presented a paper, "Factors Affecting Flexural Bond Strength of Masonry," at the semi-annual convention of the American Society for Testing and Materials in Bal Harbor, Fla. The paper was written with W. Johnson (Grad Stu), and it will be published in the Proceedings of the symposium.

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Also at that meeting, Prof. Brown chaired the research subcommittee on manufactured masonry units.

J. E. Clark (Prof) and D. R. Hearne (Former Grad Asst) published "Acceleration Characteristics of Late-Model Automobiles" in Transportation Research Record 909, TRB, National Academy of Sciences, Washington, D.C., (1983).

Economics

R. C. Amacher (Prof and Dean) has been appointed to serve a three-year term on the board of directors of the South Carolina Council on Economic Education.

N. K. Womer (Prof) and A. Litteral (Former Grad Stu and Asst Prof, Univ of Richmond) published a paper, "NRLA & MOD - Metric Models as Aids in Design Decisions," in IEEE Transactions on Reliability (August 1983).

Prof. Womer presented two papers, "A Further Generalization of the Learning Curve" and "The Effect of Uncertainty on Program Cost, Schedule and Capital Investment," at the ORSA-TIMS national meeting in Orlando, Fla., Nov. 7-9.

Entomology, Fisheries & Wildlife

J. W. Foltz (Assoc Prof) presented "'PAC-BASS,' an Interactive Game of Fisheries Management" at the National Workshop on Computer Uses in Fish and Wildlife Programs at VPI in Blacksburg, Va., Dec. 7.

D. L. Robinette (Assoc Prof) chaired the Wildlife Program and participated on panel discussions at the Fourth Triennial Southern Region Fish and Wildlife

Specialists Workshop in Asheville, N.C., Nov. 6.

The following papers were presented at the annual meeting of the Entomological Society of America in Detroit, Mich., Nov. 28-Dec. 2:

-- "Organophosphinates as Insecticide Synergists in Tribolium castaneum" by T. M. Brown (Assoc Prof and P. K. Bryson (Res Spec II));

-- "Experimental Selection for Pyrethroid Resistance in Heliothis virescens" by Prof. Brown and G. T. Payne (Grad Asst);

-- "Developmental Success of Microplitis demolitor Parasitizing Heliothis zea Following Host Exposure to Selected Insecticides" by J. D. Culin (Asst Prof) and W. P. DuBose (Vis Asst Prof);

-- "Pesticides and Pest Management Practices -- a Study in South Carolina" by Prof. DuBose and M. M. Hammig (Assoc Prof, Ag Econ and Rur Soc);

-- "An Overview of the Practical Use and Cost Effectiveness of Ear Tags for the Control of Flies on Cattle" by M. P. Nolan Jr. (Grad Asst);

-- "Practicality of Polyvinyl Chloride Strips Impregnated With 10% Permethrin in Controlling Northern Fowl Mites" by Nolan, L. A. Lemke (Grad Res Asst) and J. B. Kissam (Prof); and

-- "Evolution and Historical Biogeography of Trichoptera" by J. C. Morse (Prof) and J. S. Weaver III (Former Grad Stu).

Extension Home Economics

L. L. Mahrer (Assoc Prof) presented a seminar, "Pathways -- How to Get There From Here: Home Economics Career Opportunities, Graduate Training and Profes-

sionalism," at the University of North Dakota in Grand Forks, N.D., Oct. 3.

Fertilizer Inspection and Analysis

H. V. Rogers (Hd) presented an invited paper, "Fertilizer Quality Control -- Can It Be Achieved in Today's Marketing System," at the Fertilizer Industry Round Table in Washington, D.C., Oct. 24.

4-H and Youth Development

S. R. Mullen (Asst Prof) conducted workshops on "Volunteer Leader Recruitment Training and Management" for Extension agents in Florida and Georgia Nov. 28-29 and Dec. 1.

Languages

G. J. Fernandez (Prof) published "La Unidad Como Factor de la Revolucion a Traves de los Discursos Politicos de Marti" in Jose Marti ante la Critica Actual (En el Centenario del Ismaelillo). He also presented the article at the Memoria del II Congreso Cultural de Verano del Circulo de Cultura Pan-Americano in Miami, Fla., in August, and the paper was published in the Proceedings of that conference.

Prof. Fernandez presented a paper, "Confesiones Colombinas: El Arpa y la Sombra at the 33rd annual meeting of the Mountain Interstate Foreign Language Conference at Virginia Polytechnic Institute in Blacksburg, Va., Oct. 13-15.

Prof. Fernandez has been re-elected to a three-year term as Southeast vice president of the Spanish National Honorary Society, "La Sociedad Nacional Hispanica, Sigma Delta Pi."

M. M. Sinka (Assoc Prof) presented a workshop, "Focus on Youth: Instructional Units for the Classroom," at the American Association of German Teachers Meeting, San Francisco, Calif., Nov. 26.

Prof. Sinka's booklet on the German family, Familie, written with M. Roder (Goethe Inst., Atlanta, Ga), is now available to German instructors.

Management

D. W. Grigsby (Asst Prof) has had an article, "Bargaining Behavior Under Third Party Conflict Resolution Procedures," accepted for publication in International Journal of Management.

W. H. Hendrix (Assoc Prof) has had a paper, "Effects of Stress and Exercise on Employee Health," accepted for presentation at the Fifth Annual Meeting of the Society of Behavioral Medicine to be held May 23-26 in Philadelphia, Pa.

M. J. Stahl (Prof and Hd) and A. M. Harrell (Univ of S.C.) published a paper, "Identifying Operative Goals by Modeling Project Selection Decisions in Research and Development," in IEEE Transactions on Engineering Management (November) 223-228.

Prof. Stahl and T. W. Zimmerer (Prof) presented a paper, "Strategic Focus: Modeling Strategic Decisions to Formulate Strategic Alternatives," at the National American Institute for Decision Sciences Meeting in San Antonio, Texas, Nov. 22. The paper was published in the refereed Proceedings.

Mathematical Sciences

J. W. Kenelly (Prof) presented a workshop for advanced placement mathe-

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matics teachers at the Louisiana State Department of Education in Baton Rouge, La., Dec. 6.

R. C. Laskar (Prof) has been named an associate editor of the Journal of Statistical and Planning Inference.

D. R. Shier (Prof) gave two talks, "Of Mice and Mazes" and "Fractals," to advanced mathematics students at D. W. Daniel High School in Clemson, Dec. 13.

MATHEMATICS PROFESSOR RECEIVES FULBRIGHT FOR STUDY IN IRELAND

William H. Ruckle, a professor of mathematics, is in Dublin, Ireland, this semester on a Fulbright Grant.

Named an American Scholar by the U.S. Information Agency, Ruckle has a nine-month grant to lecture in mathematical sciences at Dublin's Trinity College.

Ruckle came here in 1969 from Bethlehem, Pa., where he was an associate professor of mathematics at Lehigh University.

He was a guest professor of applied mathematics at the University of Frankfurt in West Germany in 1975-76 and a visiting professor of mathematics at Western Washington University in Bellingham, Wash., in 1978-79.

Ruckle earned his bachelor's degree in mathematics from Lincoln University in Pennsylvania and his doctorate in mathematics at Florida State University.

Parks, Recreation and Tourism Management

R. L. Howell (Asst Prof) published "Gross Economic Benefits to Walhalla, South Carolina From the 1983 October-

fest" as Extension Research Report RPA (1983) 84-1.

Physics and Astronomy

A. L. Laskar (Prof) and P. A. Cardegna (Former Grad Stu) published a paper, "Observations on Anomalous Defect Parameters in the Study of Mass Transport in Silver Halides," in Radion Effects 75 (1983) 27.

J. R. Ray (Prof) published an article, "Molecular Dynamics Equations of Motion for Systems Varying in Shape and Size," in Journal of Chemical Physics, Vol. 79 (Nov. 15, 1983) 5128.

The following papers were presented at the Southeastern Section of the American Physical Society Meeting at the University of South Carolina in Columbia Nov. 3-5:

-- "The Case of Finite Strain" by Prof. Ray and A. Rahman (Argonne Nat Lab);

-- "Geometrization of Spin and the Proof of the Weyssenhoff Fluid Conjecture" by Prof. Ray and L. L. Smalley (Univ of Alabama);

-- "A Comparison of Theoretical and Observational Color-Magnitude Diagrams" by I. L. Spencer (Former Grad Stu);

-- "Bridgman's Pressure Measurements and Third-order Elastic Constants" by M. J. Skove (Alumni Prof) and B. E. Powell (West Ga College);

-- "Dynamical Effects in the Atom-Surface Interaction" by J. R. Manson (Prof) and R. H. Ritchie (Oak Ridge Nat Lab);

-- "Early Progress on a National Low Temperature Neutron Irradiation Facility (NLTNIF)" by R. R. Coltman Jr. (Adj Prof) and F. W. Young Jr. (Asst Dir of Solid State Div);

-- "Properly Normalized Solitary Wave Exchange Potentials" by P. B. Burt (Prof and Hd) and M. Sebhatu (Winthrop College);

-- "Nonperturbative Contributions to Electron-Electron Scattering" by Prof. Burt and K. Forinash (Former Grad Stu); and

-- "Translational and Rotational Motions of a Sphere" by R. L. Chaplin (Prof) and M. G. Miller (Prof).

Also at that meeting, the following invited papers were presented:

-- "Quasi One-Dimensional Metals" by E. P. Stillwell (Prof);

-- "The Impact of Technology on Science" by J. P. McKelvey (Prof); and

-- "Star Formation History of the Nearby Galaxy, the LARGE Magellanic Cloud" by P. J. Flower (Assoc Prof).

At the same meeting R. C. Turner (Prof) presented an invited lecture,

"Physics and Toys," and Prof. Skove presided over the Astronomy, Atomic and Molecular Topics Session.

Plant Pest Regulatory Service

H. B. Jackson (Hd) attended the National Entomological Society of America meeting in Detroit, Mich., Nov. 28 - Dec. 1 and will serve as the chairman of Section "E," Extension and Regulatory Entomology, at the 1984 meeting.

J. E. Jones (Prof) chaired a session, and the following made presentations at the Carolina Nutrition Conference in Charlotte, N.C., Dec. 1:

-- D. V. Maurice (Assoc Prof) gave an invited paper, "The Effect of Dietary Calcium on Feed Intake and Egg Shell Quality," and

-- B. D. Barnett (Prof and Hd) presented "What's Happening in Clemson's Poultry Science Department."

JAN 25 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Jan. 27-Feb. 3

SHORT COURSES

- 31 "Financial Aid." Sponsored by University Union, 7-9 p.m. Call 656-2461 for more information.
- 2 "Cross Country Skiing." Sponsored by University Union, Student Government Building, 7-8 p.m. and Feb. 4, 8 a.m.-8 p.m. Call 656-2461 for more information.

CONCERTS

- 29 Eaton-Freeman Piano Competition. Sponsored by music department, Daniel Hall Auditorium, 3 p.m. Open to public. Free. Call 656-3043 for more information.
- 1 Clemson University Concert Series, Hague Philharmonic. Sponsored by music department, Littlejohn Coliseum, 8 p.m. Students present activity cards, others present season tickets (\$20 adults, \$10 students). Advanced tickets (\$6 adults, \$2 students) may be purchased. Call 656-3043 for more information.

FILMS

- 28 "Blue Thunder." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m. Free with University I.D. Call 656-2461 for more information.
- 29 "The Mirror Cracked." Sponsored by University Union, Y-Theater, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 30 "Seven Brides for Seven Brothers." Sponsored by University Union, Y-Theater, 8 p.m., \$1. Call 656-2461 for more information.
- 31 "The Landscape of Pleasure," a part of the BBC series "Shock of the New" by Robert Hughes, depicting the art and architecture of the 20th century. Sponsored by history and visual studies department and College of Architecture, Lyles Auditorium, Lee Hall, 4-5 p.m. and 8-9 p.m. Free. Call 656-3081 for more information.

CV EVENTS

CV Events is a series of seminars and workshops designed to help you develop your career skills and achieve your career goals. The events are held throughout the year and cover a wide range of topics, including:

CV Writing

CV Writing is a seminar that will help you to write a CV that is attractive to employers. You will learn how to structure your CV, what to include, and how to make it stand out from the crowd.

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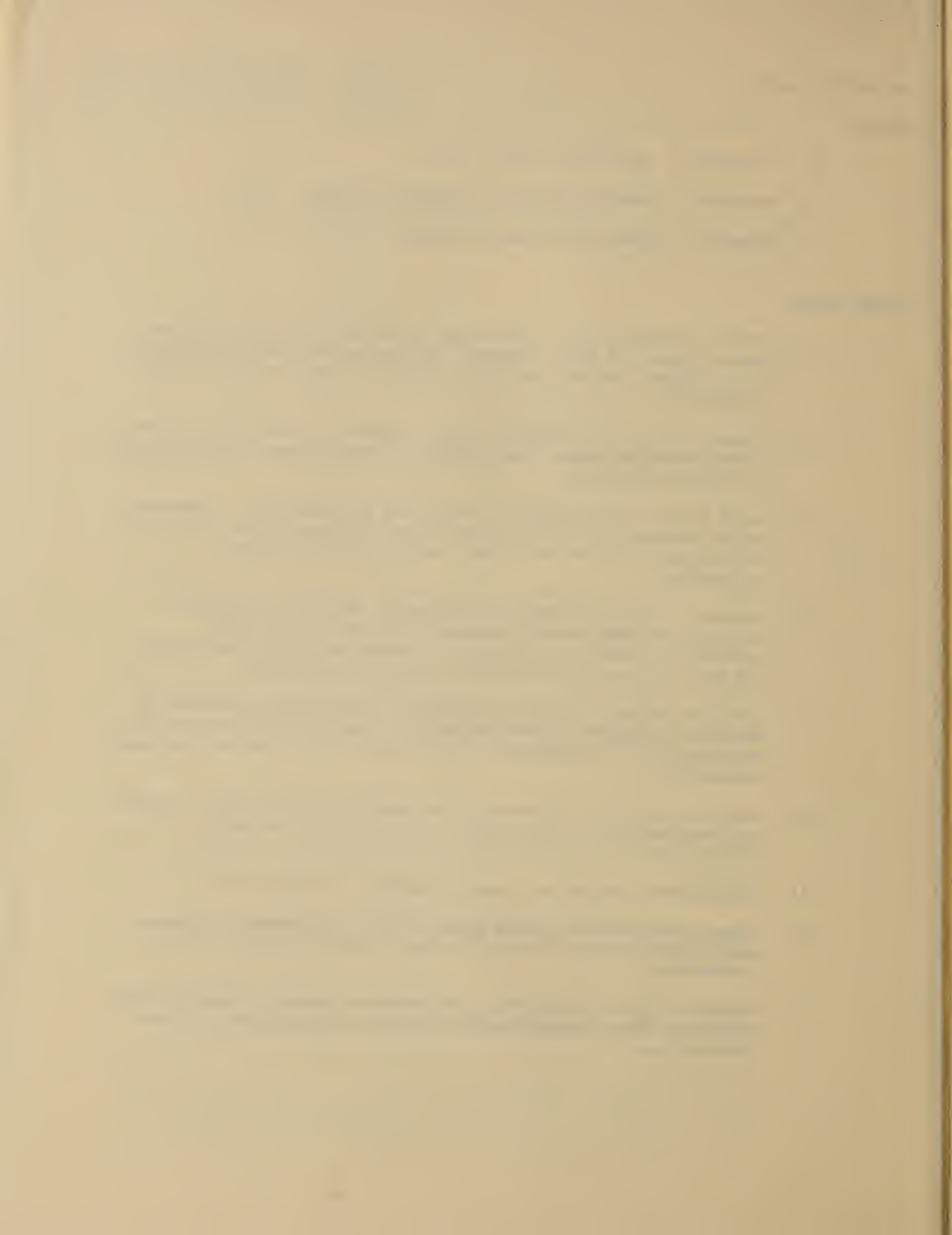
CU EVENTS (Cont.)

SPORTS

- 28 Basketball: Duke, here, men, 5 p.m.
- 28 Basketball: Wake Forest, here, women, 2:30 p.m.
- 1 Swimming: Furman, here, men and women, 7 p.m.

OTHER EVENTS

- 27 1984 Presidential Ball. Sponsored by University Club, Fike Recreation Center, 9 p.m. Tickets, \$10 per person, may be purchased at the Alumni Center. Call 656-2345 for tickets or 656-3055 for information.
- 28 Graduate Management Admission Test. Sponsored by Counseling and Career Planning Center, Martin Hall, 8 a.m.-12 noon. Call 656-2451 for more information.
- 29 Dance Recital, Ohad Naharin, dancer and choreographer. Sponsored by NCR Corporation in cooperation with Affiliate Artists Inc., Tillman Hall Auditorium, 3 p.m. Call 656-2461 for more information.
- 30 Lecture: "Work and Works in Progress -- Projects of Hugh A. Jacobsen" by Hugh Newell Jacobsen, FAIA, Washington, D.C. Sponsored by Clemson Architectural Foundation, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 30 Carolina Journal. Meredith Nicholson, an assistant professor of nursing, discusses delayed childbirth. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 30-3 Union Art Gallery. Universal Print and Photo Collectors. Prints and paraphernalia of rock stars. Call 656-2461 for more information.
- 31 College Bowl Intramural, Senate Chambers, 7:30-9:30 p.m.
- 31 Sign-up deadline for Spring Break trip to the Bahamas. Sign-up and details at Union Information Desk. Call 656-2461 for more information.
- 1 Reception following the Hague Philharmonic Concert. Sponsored by University Club, Alumni Center, 10 p.m. Call 656-2345 for more information.



February 1, 1984
Vol 23 No 22

FEB 3 1984

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



NEWS SERVICE WANTS TO KNOW WHO KNOWS ABOUT 1984 ELECTION CAMPAIGN ISSUES

When Clemson faculty members talk, people listen. So the University News Service is putting together a list of faculty who can offer insight into the major issues of the 1984 presidential election.

The idea is to offer to regional newspaper reporters, editorial page editors, and television and radio correspondents an "election media guide" of on-campus experts.

Since the elections will occupy much of the news media's space and time until November, the election media guide should help the University in boosting its public relations effort.

If you have the credentials to help analyze current events (if you hold a national office, have written a book, or have studied abroad, for example), please fill out the election media guide form on Page 7 of this Newsletter and return it to the editor in the Trustee House who covers your area.

Those editors are Cathy Sams for engineering, sciences, nursing, and textiles; Margaret Lamb for architecture, liberal arts, commerce and industry, and forest and recreation resources; Tom Shealey for the S.C. Agricultural Experiment Station; and Danny McNeill for the Extension Service.

A tentative list of topics has been drawn up, but additions are welcome. The News Service hopes to

identify experts on the following subjects:

- economic issues in general (deficit; military spending) and social programs in particular;
- foreign policy (Lebanon, and Central America in particular);
- international peace and nuclear weapons freeze movements;
- hunger in America;
- public education in general (for example, comparisons with systems in other countries);
- Jesse Jackson and the black vote (mobilizer or diluter?);
- Southern primaries;
- military weapons research and military spending;
- national industrial policy on textile imports and the protection of technology; and
- environmental issues such as the funding and the handling of toxic waste clean-ups.

The first election guide will be mailed to the media around Feb. 14 to take advantage of the New Hampshire primary coverage.

Updated versions may be sent out as new issues come to light. So, go ahead and send in your name even if the deadline has passed. Or, if you prefer, you may call the News Service at 656-2061.

DOMINICA'S PRIME MINISTER TO DISCUSS HER ROLE IN U.S. GRENADA INVASION

Prime Minister of Dominica Eugenia Charles has accepted an invitation from the Strom Thurmond Institute to speak here Feb. 6.

As president of the Organization of East Caribbean States, Charles played a major role in the deployment of U.S. and regional armed forces to Grenada in October of 1983.

She will talk about her role in the Grenada invasion at 4:30 p.m. in Tillman Hall Auditorium. A reception in the Alumni Center will immediately follow the address, which is free and open to the public.

PHI KAPPA PHI SEEKS NEW MEMBERS FROM FACULTY AND STAFF

If you were eligible, as an undergraduate, for nomination to the National Honor Society of Phi Kappa Phi, but your college or university had no chapter, you may have the opportunity to become an active member of that society.

Clemson's chapter of Phi Kappa Phi is inviting nominations for new members from among the faculty and staff, says Debbie Dunning, public relations officer for the local chapter, and Provost David Maxwell is urging your support.

"Phi Kappa Phi is a tangible reflection of the fact that the highest values in academia are scholarly," Maxwell says. "I urge all of our faculty to support this outstanding society that furthers the very goals to which the faculty gives primacy."

The primary qualifications for membership in this, the only honor society to invite nominations from all fields of study, are excellence of scholarship and integrity of character, says Dunning.

"Individuals who graduated magna cum laude or who were Phi Beta Kappa members are automatically eligible," she says.

Membership includes junior students in the upper 5 percent and seniors in the upper 10 percent of their classes, scholastically superior graduate students, and faculty and staff members who were members of the society during their undergraduate or graduate years.

Each year the Clemson chapter nominates one outstanding senior student of the society for a \$4,500 graduate fellowship. Nationwide, 40 to 50 of these fellowships are awarded annually.

In 1982 a fellowship was awarded to a Clemson student, and in 1983 a Clemson student received a \$200 award.

The local chapter gives its own award each year, the Certificate of Honor, to a high school senior who has been accepted for admission to Clemson and who has the highest predicted GPR in his or her graduating class.

According to Dunning, nominations for members from the faculty and staff are made once each semester.

"Anyone within the University may make a nomination," she says. "However, if a person were invited, as an undergraduate, to join the society and for any reason declined, that person is no longer eligible."

Dunning says that, if you know a faculty or a staff member who meets the qualifications for membership in Phi Kappa Phi and who may be interested in joining, you should submit the candidate's undergraduate transcript and a letter of nomination attesting to the person's standing as an undergraduate.

Send the supporting material to Dunning at 103 Fike Center by Feb. 8, or call her at 656-2467 for more information.

APPLICATION DEADLINE APPROACHING FOR FINANCIAL AID REQUESTS

Application forms for 1984-85 undergraduate scholarships are available in the Financial Aid Office, G-01 Sikes Hall, and must be submitted by Feb. 15, says financial aid director Marvin Carmichael.

"By submitting an application," he says, "a student will be considered for all scholarships awarded by the University." With very few exceptions, students anticipating renewal of their scholarships must reapply.

The University Scholarship and Awards Committee selects scholarship recipients on the basis of need, major, county residence, state residence and career goal. Stipends range from \$75 to \$3,000.

"Most award notifications are mailed in late April," says Carmichael, "and all applicants will be notified of the status of their requests even if they are not awarded scholarships."

Transfer students must complete one full semester (12 hours) to be considered for the scholarships.



The Clemson University Newsletter is published for Carol Hood, a staff assistant in the College of Architecture, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Students desiring information on other scholarship opportunities, should check the bulletin board outside G-01 Sikes Hall or call 656-2280.

THERE'S A SUMMER PLACE RIGHT HERE FOR YOUR GROUP

Cold weather may have you thinking that winter is never going to end, but, as sure as the world turns, the days are getting longer.

And that means, among other things, that the Housing Office and other campus services are beginning to gear up for the many camps, programs and conferences that make use of University facilities during the summer.

Now is the time, says assistant housing director Matt Watkins, for departments planning to sponsor summer activities here to start making arrangements for the resources that will be needed.

Housing, food and other services are all available at reasonable rates for summer groups sponsored by University departments.

Youth athletic and academic camps and freshman orientation sessions account for the largest numbers of hot-weather visitors accommodated on campus each year, but many adult groups use University housing during the summer as well.

"Last year, for instance," says Watkins, "we housed such groups as the Barber Shop Quartet Conference, College Week for Senior Citizens, and the Western Electric Conference."

Approximately 7,500 students are housed on campus during an ordinary semester. Last summer 7,783 guests stayed in University facilities for an average of three nights per person.

Continued on page 4.

Continued from page 3.

"That's a lot of people to keep track of when they're here for such short periods of time," says Watkins. For that reason, the sponsor of a summer group must give the Housing Office an alphabetical list of participants' names and room numbers as soon as registration is completed.

The sponsor must also provide resident counselors for participants under 18 years of age and is responsible for damages occurring during the groups' stay.

No deposit is required for use of housing facilities. The rates vary, and several linen and cleaning plans are offered for additional charges.

The sponsor assigns rooms, registers participants, collects individual room rent, and distributes keys. The Housing Office bills the sponsor according to the number of rooms and people involved.

Meals for summer groups can be arranged through ARA Food Services, Harcombe Dining Hall.

Health services can be arranged through Redfern Health Center. Copies of the request for these services should then be sent to Redfern and the Housing Office.

Arrangements for use of educational, social and recreation facilities -- such as auditoriums, classrooms, the Alumni Center, the Union, or Fike Recreation Center -- can be made by contacting the persons responsible for these facilities.

A more complete description of the resources available to summer groups and more specific guidelines concerning regulations and procedures are contained in a brochure to be sent to deans and department heads later this month.

The brochure contains a preliminary application form that the Housing Office requests interested parties fill out and return to 200 Mell Hall by March 16.

For more information concerning housing for summer groups, contact Matt Watkins at 656-2295.

MAYBE YOU OUGHT TO BE IN PICTURES
... OR POLITICS ... IN BRITAIN

Picture yourself visiting Oxford or Cambridge or the London Parliament.

Picture yourself interviewing British policymakers and sitting in on lectures and discussions of Britain's government, economic structures and standing in the world community.

Then picture yourself enrolled in political science 379, a three-week, summer program of comparative study of British and U.S. politics.

According to course instructor Michael Morris, an associate professor of political science, the program will "rely heavily on on-sight interviews with policymakers."

"This means members of political parties, court judges, members of Parliament, and both public and private industrial entrepreneurs," he says.

The course is open to Clemson and non-Clemson graduate and undergraduate students in all fields of study. No prerequisites are necessary.

The cost of the program, says Morris, is \$1,375 for in-state students and \$1,597 for out-of-state students.

That includes tuition and fees, round-trip air fare from Atlanta to London, airport transfers, 20 nights' accommodations in London (with breakfast) and three, one-day study trips outside London.

For the same air fare, says Morris, students will have the option of staying in Europe up to 90 days after the course ends, if tickets are reserved in advance.

The course, he says, is designed to expose students from all fields of study to international politics.

For information on enrolling in the course, call Morris at 656-3235 or write to him at 403 Strode Tower.



NEW HOURS -- It takes a lot of hours and busy people to keep up with parking, traffic and vehicle registration. That's why the traffic office has added more hours to its day and is now open until 11 p.m. Keeping track of traffic here are (foreground) Marian White, clerical specialist, and (background) Judy Walker, (left) administrative specialist and Janette Chapman, keypunch operator.

TRAFFIC OFFICE HAS NEW HOURS,
SAME OLD NUMBER: 656-2270

dial 656-2222. That number will get you the police department.

You asked for it, and you got it.

The Parking and Vehicle Registration Office (a.k.a. the traffic office), in response to requests from faculty, staff and students, has extended its hours into the evening.

The office is now open from 8 a.m. until 11 p.m., says director Bill Pace.

"There was a right good bit of demand to extend the hours," he says, "especially from faculty and students with evening classes. And there are some day students who just can't come in before 4:30."

Barrett Senn, who has joined the traffic office as a clerical specialist, will be on duty during the new evening hours.

The telephone number of the traffic office has not changed, however, so if you want to call that office, just dial the same old number -- 656-2270. Don't

APPLY FOR RESEARCH AWARDS
BEFORE MARCH 1 DEADLINE

If you're planning to apply for a 1984 Provost Research Award, remember the March 1 deadline.

In April, 25 of the \$2,000 awards will be given to stimulate the initiation and completion of research activities among members of the faculty.

The University Research Grant Committee will make awards after a blind, non-peer review of the applications.

Research objectives, feasibility and significance, as well as compliance with application instructions, will be major considerations in the review.

Application forms and instructions are available from the Office of University Research, E-102 Martin Hall. Call 656-2375 for more information.

DID YOU GET YOUR REVISIONS TO THE FACULTY MANUAL?

During the week of Jan. 23, revisions to the Faculty Manual were sent out to all faculty members.

If you did not get a set of revisions, call Tolly Taylor, staff assistant in the Provost's office, at 656-3243.

PERSONNEL OFFICE REQUESTS EMPLOYEE EXIT INTERVIEWS

The Personnel Office would like to help you make a graceful exit from the University.

No, Personnel isn't dropping you any subtle hints. But, when the time comes for you to stop working here, you should fill out an exit interview questionnaire and send it to the Personnel Office.

The questionnaire will ask you to evaluate your employment here, including supervision, employee relationships, working environment, personnel policy, and other related office conditions.

Personnel operations manager Pat Collins says the questionnaires, to be used for research and statistical purposes, will be kept confidential.

One use of your answers, she says, may be to help identify problems in supervision, personnel policy and overall working conditions.

Personnel will send you an exit interview form if you indicate on your Employee Separation Notice, which your department must file, that you want an exit interview.

Also, at your request, Personnel will arrange a personal interview with you.

For more information, call Collins in the Personnel Office at 656-2426.

FEBRUARY MEANS SNOW (MAYBE)

Maybe it will, maybe it won't. But just in case the white stuff does come tumbling down this semester requiring cancellation of classes, remember: The University has a plan.

Calling February an "optimum month" for snow emergencies, University Union program director Bill Mandicott says the University would "like to insure a smooth and effective implementation of the snow plan."

Copies of the plan, distributed in September to all members of the faculty, staff and student body, give detailed information on how notification of cancellation of classes is coordinated by the University.

If you need additional copies of the plan, call the Union at 656-2461.

HISTORY BOOK MARKS IPTAY'S FIFTIETH YEAR

IPTAY: The First Fifty Years, a chronicle of the growth of the University's athletic booster club since its beginning a half century ago, is off the presses and available now at the Ticket Office in Jervey Athletic Center.

The golden anniversary publication was edited by 1928 alumnus Harper Gault, the only person to serve as president of both the Alumni Association and IPTAY.

Contributing editors include history Prof. Joe Arbena, who directs the annual Sport and Society Conference here, researcher Aurora Arbena, sports information director Bob Bradley, and IPTAY executive secretary Joe Turner.

A copy of the 97-page book costs \$5.

February 1, 1984

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CLEMSON UNIVERSITY
ELECTION MEDIA GUIDE

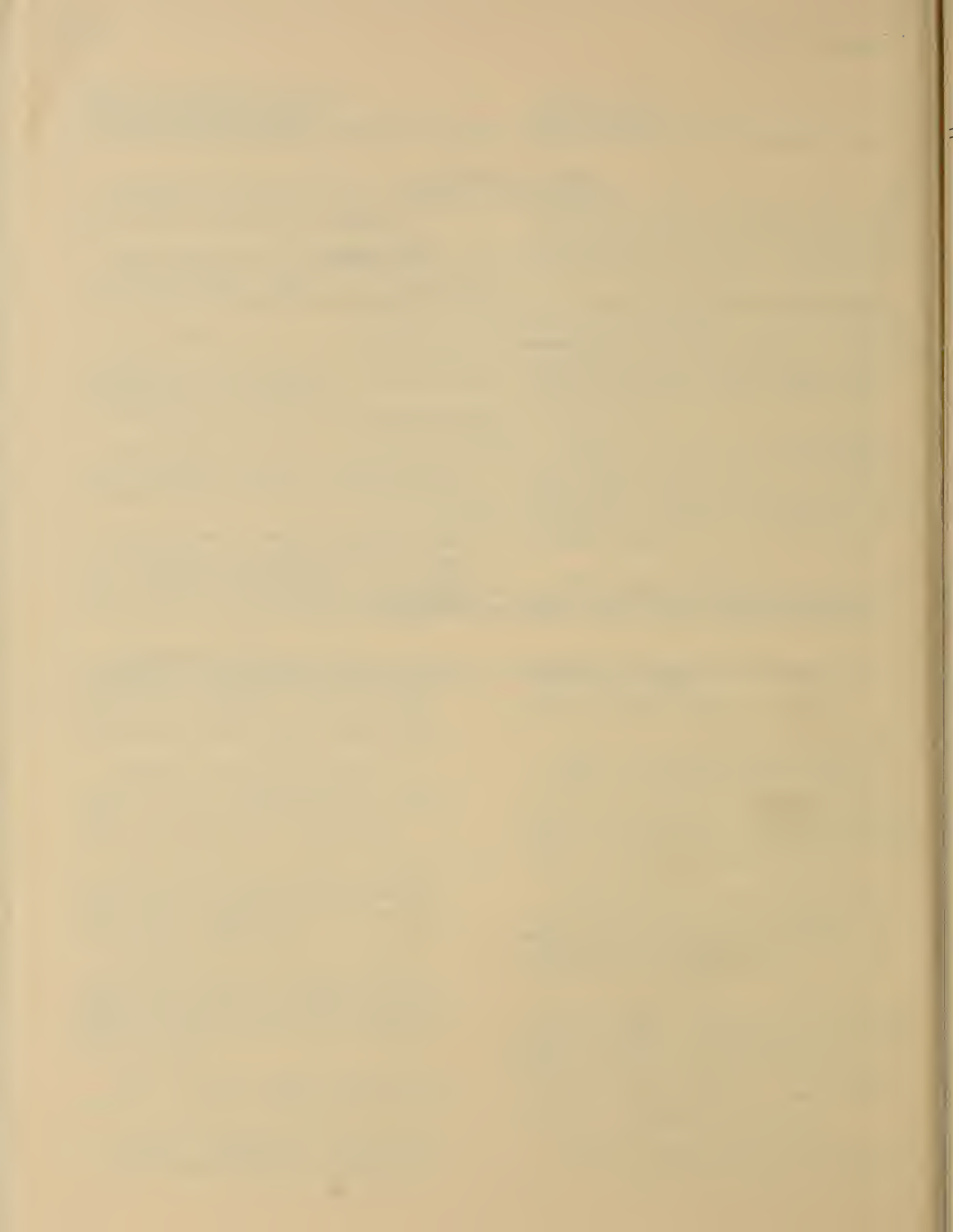
Name _____ Phone number _____

College/department _____

Topic (not necessarily one listed above) _____

Credentials _____

PLEASE DETACH AND MAIL THIS ELECTION MEDIA GUIDE TO THE NEWS EDITOR IN THE
TRUSTEE HOUSE WHO COVERS YOUR COLLEGE OR DEPARTMENT.



FEB 2 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Feb. 3-10

WORKSHOPS, SEMINARS AND LECTURES

- 6 Lecture: Prime Minister of Dominica Eugenia Charles, will discuss her role in the deployment of U.S. and regional armed forces from Grenada in October, 1983. Sponsored by Strom Thurmond Institute, Tillman Hall Auditorium, 4:30 p.m. Reception following in the Alumni Center. Free. Open to public. Call 656-4700 for more information.
- 6 Workshop: "Beginning Bartending." Sponsored by University Union. Call 656-2461 for more information.
- 6-20 Workshop: "Jewelry Making." Sponsored by University Union, Godfrey Hall, 6-9 p.m. Call 656-2461 for more information.
- 6- Workshop: "Advanced Clogging." Sponsored by University Union,
March 12 Palmetto Ballroom, 7-9 p.m. Call 656-2461 for more information.
- 8 Seminar: "Modeling of Pulsed and Broadband Ocean Acoustic Wave" by James R. Brannan, an assistant professor of mathematics, and "Subsonic Base Flows" by Christian E. G. Przirembel, a professor of mechanical engineering. Sponsored by mechanical engineering department, 300 Riggs Hall, 3:30-4:30 p.m. Call 656-3470 for more information.
- 9 Seminar: "Ultramafic Rocks of the Blue Ridge -- An Overview" by Steve Yurkovich, chairman, earth sciences department, Western Carolina University. Sponsored by geology department, 235 Brackett Hall, 5 p.m. Call 656-3438 for more information.
- 9- Workshop: "Bridal Seminar." Sponsored by University Union,
March 15 Senate Chambers, 7-8:30 p.m. Call 656-2461 for more information.

DRAMA AND FILMS

- 6 French Club play presented by students. Sponsored by languages department, Daniel Hall Auditorium, 8-10 p.m. Open to public. Free. Call 656-3393 for more information.

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CU EVENTS (Cont.)

- 7-8 "Trouble in Utopia," part IV of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lee Hall, Lyles Auditorium, 4-5 p.m. and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.
- 8 "Aguirre, the Wrath of God." Sponsored by Five Directions Cinema, Y-Theater, 7:30 p.m., \$2. Call 656-3069 for more information.

SPORTS

- 4 Basketball: Wake Forest, here, men, 5 p.m.
- 4 Basketball: N.C. State, here, women, 2:30 p.m.
- 8 Tennis: Lander College, men, 2:30 p.m.
- 8 Basketball: N.C. State, here, men, 8 p.m.
- 8 Basketball: Carson Newman, here, women, 7:30 p.m.

OTHER EVENTS

- 4 Graduate Record Exam. Sponsored by Counseling and Career Planning Center, Martin Hall, 8 a.m.-5:30 p.m. Call 656-2451 for more information.
- 4-5 1984 2nd Annual Collegiate Driving Championships. Sponsored by University Union, Parking Lot R-4, 10 a.m.-5 p.m. Call 656-2461 for more information.
- 6 Carolina Journal: Sam Colson, weight coach and instructor in education, talks about the Olympics. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 7 Miss Clemson University Pageant. Sponsored by Mortar Board, Tillman Hall Auditorium, 8 p.m. Open to public. Call 656-2153 for more information.

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FEB 8 1984

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



SPRINGS INDUSTRIES ESTABLISHES FELLOWSHIP PROGRAM AT CLEMSON AND USC

Springs Industries has announced a 12-year, \$1-million fellowship program to be shared equally by Clemson and the University of South Carolina.

Beginning with the 1984-85 academic year, Springs will award two \$12,000 graduate fellowships annually to each of the two universities.

Each fellowship will be renewed for a second year provided the recipient demonstrates acceptable progress toward the master's degree.

Springs' pledge to continue the program through 1995-96 represents a total commitment of \$1,050,000 to higher education in South Carolina.

The company is establishing the program in memory of the late H. W. (Bill) Close, who was chairman of the board of Springs Industries from 1969 until his death last August.

He became chairman after a 10-year stint as president of the company. In all, he devoted 37 years to the textile industry and to the educational, economic and civic progress of South Carolina.

Under Close's leadership, Springs became one of the world's largest textile organizations and the state's largest industrial employer.

Springs Chief Executive Officer Walter Y. Elisha, Clemson President Bill Atchley and USC President Jim Holderman announced the program Jan. 31 at a news conference at company headquarters in Fort Mill.

"Bill Close had a lifelong interest in higher education, and this is a most appropriate testimonial to his memory," Elisha said.

"We believe the Close Graduate Fellowships will be the most prestigious graduate grants available in the state of South Carolina," he said.

"We want to attract to these campuses and this state the brightest, most able people available. And we want to retain as many of them as possible for the benefit of the state."

Back on campus, President Atchley told the Newsletter: "We are honored to join Springs Mills in this significant graduate program.

"For many years, we've had a tremendous need for grants to help us to attract the very best graduate students available. Springs has now made this possible through these fellowships honoring Bill Close, a man who was such a great friend and supporter of higher education.

"Not only will this program help us compete for outstanding students, it will also help us encourage those outstanding students to stay in South Carolina. And, in that way, this gift will help us continue to enrich the life of our state."

There are few strings attached to the fellowships, which will be open to meritorious students without regard to need, home state or other non-academic factors.

Applicants will be screened and

Continued on page 2.

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selected by university committees here and at USC, respectively.

Criteria for selection will include applicants' undergraduate records (only graduates in the top 10 percent of their classes will be considered), test scores, and extracurricular activities (especially community and public service).

The selection process also will emphasize leadership, imagination, creativity, personal objectives, and devotion to excellence and achieving goals. The process will include personal interviews with applicants.

Under the program, each year one new fellowship will be added to the College of Commerce and Industry, with a second going to another college at the University's discretion.

Similarly, each year USC's School of Business Administration will gain one new fellowship, and the school will decide where to place a second.

H. W. Close Fellows will have no assistantship or undergraduate teaching duties.

TRUSTEES APPROVE FIRST STEP IN THURMOND INSTITUTE CONSTRUCTION

The Board of Trustees Jan. 27 gave University administrators the go-ahead to commission an architectural and engineering study for construction of a building to house the Strom Thurmond Institute, the first of the three components planned for The Strom Thurmond Center.

The Board approved site planning for the Center's other two elements, a performing arts facility and a continuing education building.

Board Chairman James Waddell of Beaufort announced the actions following a

brief executive session during which, he said, the Trustees discussed contractual and personnel matters.

In open session earlier in the meeting, the Board received a state attorney general's opinion to the effect that state laws and regulations requiring competitive bidding do apply to the Thurmond Center project.

The Board asked for an opinion on that point because some proposals for developing the Center involve private investments.

Talking with reporters after the meeting, Waddell said the Trustees have not approved any plan for the Thurmond Center's development and won't do so until they're sure of all their options.

"The main thing I want to do is break ground for the Institute building," he said. "We're authorizing the first phase to move ahead . . . just as if it were any other building on campus."

Board opposes giving CHE fee-setting authority

In another major action during its regular quarterly meeting, the Board adopted a resolution strongly opposing giving the S.C. Commission on Higher Education authority to set tuition and fees for the state's public colleges and universities.

A recommendation that CHE be granted fee-setting authority is part of a study the commission is preparing for the General Assembly on the costs of higher education to students and the state.

Currently each school's governing body determines its institution's tuition and fees.

The CHE report concludes that the commission should be authorized to establish uniform fee structures for state schools of the same type -- grouped by level of degrees offered -- to combat

the "upward trend" in tuition and fees over the past few years.

The resolution unanimously adopted by Clemson's 13 Trustees states that "the increase in tuition and fees in recent years is not attributable to any lack of authority or control over tuition and fees" by CHE.

Rather, according to the resolution, the increases are due to decline in state support for higher education and to the requirement that institutions fund a portion of every state-mandated pay hike from their own revenues.

Those two causes are cited in the CHE report as "major factors" contributing to the rising cost of college for South Carolina students.

Trustee James Bostic, immediate past chairman of CHE, said each institution's governing body should "reserve the right to determine fees based on a needs assessment" of the school's academic programs.

Fees have gone up in recent years, he said, because governing bodies have been trying to "maintain some excellence in quality" during a period of decline in state funds for higher education.



The Clemson University Newsletter is published for Linda Eddy, a staff assistant in the Cooper Library, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Provost David Maxwell told the Trustees that, since different schools offer different programs and have different academic areas of excellence, it doesn't make sense to expect all state schools to charge the same fees.

"The commission is attempting to make us all produce the same size shoe," Maxwell said. "If that succeeds, there are going to be a lot of painful feet."

Boykin outlines library goals

At the request of the Board's Educational Policy Committee, libraries director Joe Boykin spoke briefly to the Trustees about the libraries' needs and goals for the next five years.

He said a top priority has to be protecting the number of periodical subscriptions from further cuts. That's no small task, he said, given spiraling subscription costs that jump as much as \$100,000 in a single year for the 6,300 periodicals to which the libraries subscribe.

The library system needs to increase its holdings by about 300,000 volumes to be at an acceptable level, he said.

There's also a need for four more reference librarians, he said, noting that there have been no additions to the reference staff since 1977.

Expanding shelving and seating capacities and replacing obsolete equipment and worn-out furniture are priorities as well, he said.

Boykin said the libraries will continue phasing in a computerized card catalog system and will work on developing a records management program and University archives.

Atchley praises emphasis on education

In his remarks to the Board, Presi-

Continued on page 4.

Continued from page 3.

dent Bill Atchley praised the current public emphasis and attention on education in the state and said it is time to move ahead with "a new sense of confidence" and "renewed enthusiasm" to meet the challenges education faces.

He said there are basically two questions to be addressed: how to provide for high-quality, productive primary and secondary education and how to provide more support for higher education.

He reaffirmed his own agreement with the recently announced Council of President's endorsement of Gov. Dick Riley's efforts to improve public education in South Carolina.

Atchley also welcomed Don Elam, who'll join the University later this month as vice president for institutional advancement.

Elam, who attended the Board meeting, was introduced and welcomed earlier by Chairman Waddell.

Personnel's house becomes a hall;
'Roderick House' becomes a center

Ratifying earlier mail-ballot action, the Trustees approved naming the building housing the University's Personnel Office "Gentry Hall" in honor of John B. Gentry Jr., who retired in 1976 after 19 years as personnel director.

The building, the former Frank Anderson home, is opposite Sloan Tennis Center on Highway 93.

Gentry was born in 1910 in Greenwood. He graduated from Furman in 1932, earned a master's from Duke in 1939, and later did the equivalent of a year of doctoral study at the University of Georgia.

Before joining Clemson in 1948 as an associate professor of education, Gentry was a public school teacher and administrator for 12 years, a Navy sonar instruc-

tor during World War II, and a Veteran's Administration official for four years.

He became a full professor here in 1950. Seven years later he became personnel director.

Clemson's first Personnel Procedures Manual was published while he was director, and many of the University's personnel procedures and systems were computerized and streamlined under his leadership.

The Trustees cited Gentry as one who "always went out of his way to help people who did not understand many complex laws and procedures or who did not have someone to champion the cause for something that was right.

"This may be best illustrated by his undying devotion to the cause of extending survivor benefits to widows and orphans of those who died in state service. He worked on this project for more than 20 years -- even after retirement -- until he saw this important benefit enacted into law."

The Board's statement concludes: "For a man who has done so much for others throughout a long and productive life, it is most fitting that Clemson University honor John B. Gentry, Jr., in a manner that will forever affix his name with the work he loved so much."

Moving to another house on 93, the Board approved leasing the "Roderick House" to the Pickens County Council on Aging for use as a senior citizens center.

The small brick building is east of the traffic light at the President's home.

In other business, the Board:

-- granted Anderson County a 30-foot right-of-way across University land, extending from Highway 187 to the Pendleton/Clemson Sewage Treatment Plant, to lay a sewer line to serve a new high-tech facility Motorola plans to build on its land along the highway.

-- ratified earlier mail-ballot action waiving the difference between in-state and out-of-state tuition for recipients of academic recruiting scholarships.

-- ratified earlier mail-ballot action granting Southern Bell two, small, routine rights-of-way to permit installation of telephone terminal equipment.

-- noted for the record approval by the State Crop Pest Commission, a subset of the Board, for promulgation of certain regulations necessary for implementation of the Boll Weevil Eradication Act.

-- heard reports from alumni, IPTAY, and Clemson University Foundation officials and the presidents of the student body and the Faculty Senate.

EL SALVADOR, EXCELLENCE IN EDUCATION, SUBJECTS OF THURMOND INSTITUTE TALKS

U.S. involvement in El Salvador and achieving excellence in education are

topics to be addressed next week in two events sponsored by the Thurmond Institute.

Five nationally recognized experts on Latin American issues will participate in a roundtable discussion on El Salvador Feb. 13 at 3:30 p.m. in Tillman Hall Auditorium.

The roundtable, to be moderated by history Prof. Joe Arbena, will include:

-- Alejandro Orfila, fifth secretary general of the Organization of American States, who has served in diplomatic assignments in numerous world capitals including Moscow, Warsaw and Washington;

-- Enrique Baloyra, chairman of the Latin American studies curriculum at the University of North Carolina at Chapel Hill, who testified earlier this year before the Senate Foreign Relations Committee on the Reagan administration's certification of El Salvador and who has co-authored two books on political practices and public opinion in Venezuela;

Continued on page 6.

DEADLINE NEARING FOR NOMINATIONS

FOR CLASSIFIED STAFF COMMISSION

The deadline for nominating full-time, permanent, classified employees to serve on the recently approved, 13-member Commission on Classified Staff Affairs is next Wednesday, Feb. 15, says assistant personnel director Dick Simmons, who's collecting and tabulating the nominations.

There's no limit on the number of nominations an employee may submit nor on the number of times a person may be nominated.

As of Feb. 1, Simmons says, approximately 50 employees had been nominated through more than 200 nominating ballots sent to the Personnel Office.

After Feb. 15, the names of all nominees will be submitted to President Bill Atchley, who will appoint commission members from that list.

A nominating ballot form is on the back page of the Jan. 11 Newsletter. You may use photocopies of the form.

If you can't find a copy of that form, drop by the Newsletter office in 103 Fike to get one.

Nominations should be addressed to the Personnel Office, Gentry Hall, Clemson University, Clemson, S.C. 29631.

Continued from page 5.

-- Ralph Woodward, a professor of history at Tulane University, recipient of an Andrew Mellon summer grant for research in Guatemala, and the author of a dozen books on Latin American topics including El Salvador: A Modern History;

-- Maryland Rep. Michael D. Barnes, an assistant majority whip and chairman of the Western Hemisphere Affairs Subcommittee of the House Foreign Affairs Committee; and

-- Ralph E. Becker, an international lawyer, a veteran of World War II who holds five battle stars, and a former U.S. Ambassador to Honduras.

Member of national commission
will discuss excellence in education

The next day, Feb. 14, at 4:30 p.m. in Tillman, Emeral Crosby, principal of Northern High School in Detroit, Mich., will talk on achieving excellence in education.

Crosby is a member of the National Commission on Excellence in Education that developed "A Nation at Risk," the controversial report released last year that has prompted a national debate over the quality of the country's public schools.

Both events are free and open to the public.

WORK/STUDY PROGRAM ESTABLISHED
IN GRAPHIC COMMUNICATIONS

A program that will allow students to earn money for college while gaining valuable work experience has been established here in graphic communications.

The work/study program, through which selected students could earn as much as \$20,000 while working toward the bachelor's degree in graphic communications, will be financed through the

Printing Industry of the Carolinas (PICA) Foundation and contributions to the Robert Steven Hudson Memorial Fund.

Hudson, who came to the graphic communications program here in the summer of 1981, died in a 1982 boating accident. His parents, Mr. and Mrs. Bob Hudson, have set up the fund "to help others like Steve help themselves."

According to Page Crouch, Alumni Professor of Industrial Education, PICA-member companies in the Carolinas, will be doing the recruiting and will provide part-time job opportunities and full-time summer internships for students in the cooperative program.

Students may also be given on-campus work assignments, he says.

"The current bachelor's degree program requires at least two internships," says Crouch. "This work/study proposal expands the opportunities available to the student by providing sequenced, in-depth work experiences."

The mutually beneficial arrangement, he says, will give area printers a steady supply of young graphic communications professionals who are experienced as well as educated.

Applications will be accepted through April 5 from qualified high school seniors, and awards will be presented to 10 or more entering freshmen during the first year of the program. Recipients will be notified by April 23.

For information on the work/study awards, contact the selection committee, Clemson-PICA-Hudson Work/Study Scholarship, Box 36399, Charlotte, N.C., 28236.

KOON MOVES UP TO HEAD
ENGLISH DEPARTMENT

Associate Prof. G. William Koon has been named to head the English depart-



Koon

ment, liberal arts Dean Robert Waller announced Jan. 26.

Koon, 41, who earned an A.B. degree in English from Newberry College, a master's from Auburn University and a doctorate from the University of Georgia, came to Clemson in 1972.

Before joining the faculty here, he was an instructor of English at Georgia and a teaching assistant in English at Auburn.

A member of the editorial board for The South Carolina Review, Koon in November was named to the faculty of the University of South Carolina Writer's Workshop.

He is a member of the South Carolina Committee for the Humanities, from which he received a \$10,000 matching grant in 1982-83 for "Scholars Forum," a series of five programs involving 17 Upstate colleges and universities.

In addition to his book, a bio-bibliography on country music singer Hank Williams, Koon has published A Collection of Classic Southern Humor, an anthology of contemporary humor that he compiled and edited.

Koon has also participated in numerous radio and TV programs, including National Public Radio's "Morning Edition" and CBS TV's "Sunday Morning."

Koon has served as acting head of the department since November 1982,

when former head M. Thomas Inge accepted a post with the U.S. Information Agency.



Davis

INDUSTRIAL ENGINEERING DEPARTMENT HEAD NAMED

Robert Davis, a former assistant department head at Virginia Polytechnic Institute, has been chosen to head the industrial engineering department here, engineering Dean Charles Jennett has announced.

Davis, 37, is the director of professional registration for the Institute of Industrial Engineers. He taught at the University of Alabama before going to Virginia Tech.

He received his bachelor's and master's degrees from the University of Tennessee and his doctorate from Oklahoma State University.

The author of a textbook on operations research, Davis received IIE's 1983 Award of Excellence for Region III. At Virginia Tech he won the College of Engineering Sporn Award for Excellence in Teaching.

"One of the reasons I came to Clemson was because of the tremendous potential of this department," he says. "We already have a graduate program, which is a significant advantage for a developing department."

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Davis' appointment was effective with the beginning of the spring semester, Jennett said.

James Chisman, a professor of industrial engineering, has served as acting head of the department since its creation last summer.



Jones

JONES NAMED EXTENSION LEADER FOR GREENVILLE COUNTY

Emory Jones, agent Extension leader for Pickens County, has been named Extension leader for Greenville County.

The appointment is effective Feb. 10, according to Wayne T. O'Dell, director of the Extension Service.

As county leader, Jones will coordinate Extension programs in agriculture, community and youth development, and home economics.

While in Pickens County, he helped organize a direct marketing association for small fruit growers in Pickens, Anderson, Oconee, and Greenville counties and developed a special program to teach about seasonal yard pest problems.

He has also worked with the Pickens Community Development Committee to improve awareness of the county's beauty and natural resources.

Before going to Pickens in 1981, Jones worked as an Extension horticulturist here and for 10 years was featured on the 'Plant Professor' program carried by 60 radio stations and several television stations around the state.

Jones holds B.S. and M.S. degrees in horticulture from Clemson. He was assistant Extension agent in Cherokee County before coming here in 1967.

"Greenville County has a very good Extension program, and I hope to continue that tradition and perhaps strengthen the home horticulture aspect," he says.

APPLY FOR RESEARCH AWARDS BEFORE MARCH 1 DEADLINE

Remember the March 1 deadline, if you're planning to apply for a 1984 Provost Research Award.

In April, 25 of the \$2,000 awards will be given to stimulate the initiation and completion of research activities among members of the faculty.

The University Research Grant Committee will make awards after a blind, non-peer review of the applications. Research objectives, feasibility and significance, as well as compliance with application instructions, will be major considerations in the review.

Application forms and instructions are available from the Office of University Research, E-102 Martin Hall. Call 656-2375 for more information.

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Feb. 10-17

WORKSHOPS, SEMINARS AND LECTURES

- 13 Workshop: "First Aid." Sponsored by University Union, 6-10 p.m. Call 656-2461 for more information.
- 13 "U.S. Role in El Salvador," a roundtable discussion. Sponsored by Thurmond Institute, Tillman Hall Auditorium, 3:30 p.m. Call 656-4700 for more information.
- 14 Lecture: "Excellence in Education" by Emeral Crosby, a member of the National Commission on Excellence in Education. Sponsored by Thurmond Institute, Tillman Hall Auditorium, 3:30 p.m. Call 656-4700 for more information.
- 14 Lecture by Billy Mills, Olympic gold medalist. Sponsored by student government, Speaker's Bureau, Tillman Hall Auditorium, 7 p.m. Open to public. Free. Call 656-2195 for more information.
- 14-15 Workshop: "Computer Programming for Graphical Displays." Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.
- 15 Workshop: "Resume Writing." Sponsored by University Union, Senate Chambers, 7-9 p.m. Call 656-2461 for more information.
- 15-
March 7 Workshop: "Hammock Making." Sponsored by University Union, 5-8 p.m. Call 656-2461 for more information.
- 16 Lecture: "Is Life After Life an Hallucinogenic Experience?" by Carolyn S. Brown, an associate professor of biochemistry. Sponsored by Sigma Xi, Clemson House, Gold Room, lunch at 11:45, program at 12:25. Call 656-2328 for more information.

MUSIC

- 16 Robin and Linda Williams, country bluegrass duo. Sponsored by University Union, the Gutter, 8 p.m., \$1. Call 656-2461 for more information.

CU EVENTS (Cont.)

- 17 Regency, a capella vocal group. Sponsored by University Union, Tillman Hall Auditorium, 8 p.m., \$2 with University I.D., \$3 others. Call 656-2461 for more information.
- 17 The Pressure Boys Band. Sponsored by University Union, Edgar's, 9 p.m., \$2.50. Call 656-2461 for more information.

FILMS

- 9-11 "Trading Places." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 12 "The Way We Were." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 13 "From Here to Eternity." Sponsored by University Union, Y-Theatre, 8 p.m., \$1 with University I.D. Call 656-2461 for more information.
- 14 "The Threshold of Liberty," part V of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lee Hall, Lyles Auditorium, 4-5 p.m. and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.
- 15 "The Lovers." Sponsored by Five Directions Cinema, Y-Theatre, 7:30 p.m., \$2. Call 656-3069 for more information.
- 16-18 "Black Stallion Returns." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

OTHER EVENTS

- 11 Basketball: Clemson vs. University of South Carolina. Sponsored by University Union, Edgar's big screen, 8 p.m. Call 656-2467 for more information.
- 13 Carolina Journal: Lew Fitch, a professor of electrical and computer engineering, talks about amateur radio. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 13-14 Make-your-own valentine and balloon decorating. Sponsored by University Union, loggia, noon-3 p.m. Call 656-2461 for more information.

1. The first part of the paper discusses the importance of the study and the objectives of the research.

2. The second part of the paper describes the methodology used in the study and the data collection process.

3. The third part of the paper presents the results of the study and discusses the findings.

4. The fourth part of the paper discusses the implications of the study and the conclusions drawn from the research.

5. The fifth part of the paper discusses the limitations of the study and the areas for future research.

6. The sixth part of the paper discusses the contributions of the study to the field of research.

7. The seventh part of the paper discusses the practical applications of the study and the recommendations for practice.

8. The eighth part of the paper discusses the ethical considerations of the study and the measures taken to ensure ethical standards.

9. The ninth part of the paper discusses the acknowledgments and the funding sources of the study.

10. The tenth part of the paper discusses the references and the sources used in the study.

CU EVENTS (Cont.)

- 13-
March 9 Exhibit: 1984 South Carolina Arts Commission Annual Exhibition.
Sponsored by South Carolina Arts Commission, College of
Architecture and Clemson Architectural Foundation, Rudolph E. Lee
Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to
public. Free. Call 656-3081 for more information.
- 15 Last day to apply for University scholarships and Supplemental
Educational Opportunity Grants for the 1984-85 academic year.
Call the financial aid office at 656-2280 for more information.
- 15 Camp Placement Day. Camp directors interviewing for summer
positions. Sponsored by PRTM department, 10 a.m.-5 p.m.
Call 656-7502 for more information.

FEB 16 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Feb. 17-24

WORKSHOPS, SEMINARS AND LECTURES

- 18 Workshop: "Alzheimer's Disease." Sponsored by Nursing Continuing Education, 310 College of Nursing. Preregistration required. Call 656-3078 for more information.
- 20 Lecture: "Baghdad Medical City" by J. Armand Burgun, FAIA, RBSD, New York, N.Y. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 20 Seminar: "What's New in Taxes." Sponsored by Extension Service, Room D-135, P&A Building, 7:30 p.m., \$1 registration. Call 868-2810 or 859-2422 for more information.
- 21 Workshop: "Welcome to the World of Investments." Sponsored by University Union, Senate Chambers, 7-8:30 p.m. Call 656-2461 for more information.
- 21 Workshop: "Advanced Judo." Sponsored by University Union, YMCA exercise room, 8-9 p.m. Call 656-2461 for more information.
- 22 Workshop: "The Impaired Nurse." Sponsored by Nursing Continuing Education, 310 College of Nursing. Preregistration required. Call 656-3078 for more information.
- 22 Workshop: "Finding Your Roots." Sponsored by University Union, Student Government Building, 4:30-6:30 p.m. Call 656-2461 for more information.
- 23 Workshop: "Stenciling." Sponsored by University Union, Student Government Building, 6:30-9 p.m. Call 656-2461 for more information.

DRAMA AND EXHIBITS

- 17- 1984 South Carolina Arts Commission Annual Exhibition. Sponsored
March 9 by South Carolina Arts Commission, College of Architecture and
 Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-
 Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free.
 Call 656-3081 for more information.

CU EVENTS (Cont.)

- 18-25 "Measure for Measure," a Clemson Players' production. Daniel Hall Auditorium, 8 p.m., 19 and 23 at 3:30 p.m., no performance Feb. 20. Students free, faculty and staff, \$1, others \$2. Call 656-2476 for reservations and information.
- 20-25 Student Art League Exhibit. Sponsored by University Union, Union Art Gallery. Call 656-2461 for more information.

FILMS

- 19 "Big Jake." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 21 "The View From the Edge," part VI of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lyles Auditorium, Lee Hall, 4-5 and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.
- 22 "Missing." Sponsored by English department's Five Directions Cinema, Y-Theatre, 7:30 p.m., \$2. Call 656-3151 for more information.
- 23-25 "Mr. Mom." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50. Call 656-2461 for more information.
- 28 "Culture as Nature," part VII of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lyles Auditorium, Lee Hall, 4-5 and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.

SPORTS

- 18 Basketball: Maryland, here, men, 1:30 p.m.
- 22 Tennis: Virginia Tech, here, men, 2:30 p.m.

OTHER EVENTS

- 17 The Pressure Boys Band. Sponsored by University Union, Edgar's, 9 p.m., \$2.50. Call 656-2461 for more information.
- 18 Basketball: Tigers vs Maryland. Sponsored by University Union, Edgar's big screen. Call 656-2461 for more information.
- 20 Sign-up deadline for the short course "Copyright It." Sign up at Union Information Desk, or call 656-2461 for more information.
- 20 Carolina Journal. Charles Jennett, dean of College of Engineering and a professor of environmental engineering, is appearing in conjunction with National Engineering Week. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the business to have a clear and concise record of all income and expenses, as this will be necessary for the preparation of the tax return.

The second part of the paper discusses the importance of maintaining accurate records of all assets and liabilities. It is essential for the business to have a clear and concise record of all assets and liabilities, as this will be necessary for the preparation of the tax return.

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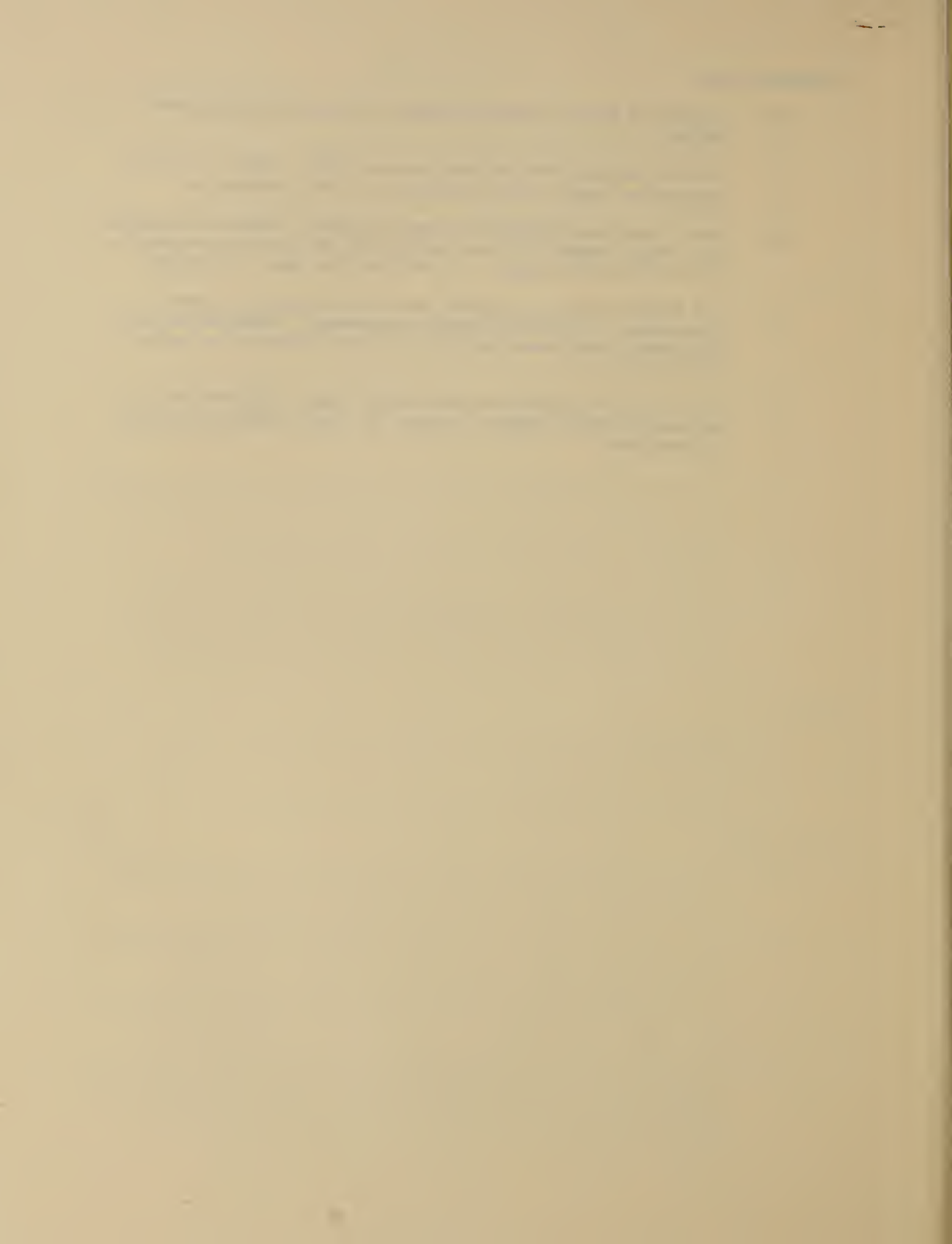
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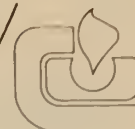
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The thirteenth part of the paper discusses the importance of maintaining accurate records of all income and expenses. It is essential for the business to have a clear and concise record of all income and expenses, as this will be necessary for the preparation of the tax return.

CU EVENTS (Cont.)

- 20 Tickets on sale at Union Box Office for the Alfred Hitchcock Series.
- 21 Sign-up deadline for the short course "CPR." Sign up at Union Information Desk, or call 656-2461 for more information.
- 22 ACTS: American Collegiate Talent Showcase. Sponsored by University Union, Edgar's, 8 p.m. Entry form and details available at Union Information Desk. Call 656-2461 for more information.
- 23 The Reading Band, an informal musical group open to anyone interested in playing a musical instrument. Sponsored by music department, band room, YMCA, 5 p.m. Call 656-3380 for more information.
- 24 Butch and the Buckheads Rock and Roll Band. Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information.





FEB 15 1984

CHEMISTRY BUILDING PROMISES TO BE PREMIER TEACHING, RESEARCH FACILITY

Some people say the cost of big buildings is calculated by the pounds of architectural drawings the structures generate.

Jerry Boyer, superintendent of planning and engineering, might agree with that. In his office several bulky reams of drawings, all rolled up, sit alongside the walls.

To calculate the cost of the new chemistry building, then, one has only to ask how much the drawings weigh, and Boyer will give an easy, hearty laugh and say, "Bunches."

Then he gets more specific, rattling

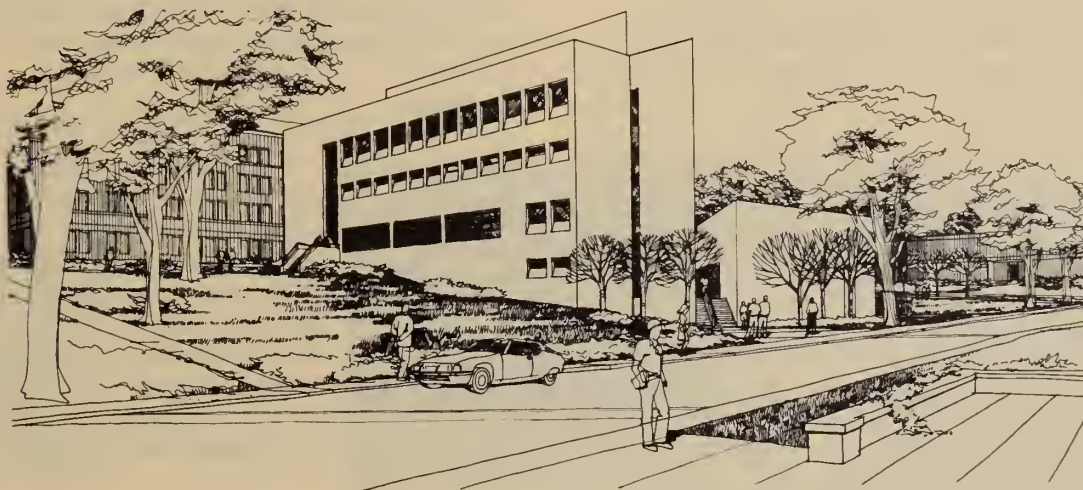
off figures and dates and measurements as if they have become a staple in his diet.

"Let's see, what can I tell you," he says, thumbing through a desktop full of reports on construction plans but not really having to look at any of them since the figures are there in his head. "The cost is \$9.5 million. There'll be 100,000 gross square feet, with 60,000 net assignable square feet, and that means enough space for about 133 faculty and staff."

He interrupts the flow of facts long enough to answer the phone, and when he hangs up he begins again.

"You want to know about construction dates? Hm-m-m-m. Well, you know archi-

Continued on Page 2.



VIEW FROM EARLE HALL

CLEMSON UNIVERSITY CHEMISTRY BUILDING

Odell Associates Inc.
Planning · Architecture · Engineering

Continued from Page 1.

texts are the most eternally optimistic people I know of. But, I guess I can safely say this much: Bids go out March 1, contracts should be awarded by mid-April, construction should -- note SHOULD -- begin sometime in June, and the projected date of occupancy is fall of 1986."

Boyer will be the first to tell you that the new chemistry building to be located in the area between Sirrine Hall and South Palmetto Drive will not be ideal.

"Nothing is ever absolutely ideal," he says, "but we came as close to the ideal as you can get in the design. And that's including all the safety, environmental, handicapped and teaching constraints that are in effect now."

The triangular building, which will parallel Sirrine east to west, will have an adjoining auditorium on the east side and, on the west side, a "footprint" for another, smaller building, which, when constructed, will have about 30 percent of the capacity of the main building.

The footprint will be "for future assignment, whatever that might be," says Boyer.

The design and location of the building were determined in accord with the Master Plan, he says.

"The design," he says, "was a logical outgrowth of the site itself and of the basic unwritten philosophy of the University that all buildings will be designed to be expanded."

Flexibility is the outstanding feature of the building, he says, adding that "if we get what we want, it will be a premier facility for teaching and research at the college level."

"In the anticipated 50 or 60 years of the life of this building," he adds, "we'll be able to accommodate significant changes in teaching and research methods with a minimum of impact on the users of the facility and at a minimum cost."

Construction of the building, says Boyer, will have little or no impact on vehicular traffic: "We do not project any changes in the traffic flow."

However, parking for Sirrine Hall employees will definitely be affected, and the Newsletter will keep you informed of changes as they are planned.



PLANNING FUTURES -- Jerry Boyer, superintendent of planning and engineering, faces mounds of architectural drawings as construction for the new chemistry building nears. Fall semester, 1986, he says, is the projected date of occupancy.

Brackett Hall to become center for social sciences

After the chemistry department moves into its new building, the department's former home, Brackett Hall, will be renovated to become the University's center for social sciences.

According to psychology department head and Prof. Eugene Galluscio, who is chairman of the renovation committee, present plans call for three departments to make up the center: psychology, sociology and political science. The geology department, he says, will remain in Brackett.

"Right now the social sciences are spread out in three different buildings, and bringing them together will strengthen all of the programs."

The renovations will be extensive, he says, and will take about two years to finish. With the completion of the new chemistry building set for 1986, the social sciences center will probably not be ready until 1988.

"As it is now," says Galluscio, "Brackett is totally inappropriate for

the social sciences. But with the renovations, we'll have better classrooms, better lab facilities and better facilities for faculty research."

HE'S ALWAYS LOOKING ON THE DARK SIDE OF THINGS

Charles Long spends a good portion of his days in basements and dark closets, and we'd better be glad he enjoys it, for we all depend on what he does there.

Long, a plumber-pipefitter in the Physical Plant, plays an important role in bringing water to a majority of the offices, labs, and residence halls on campus. And spending an afternoon with him allows one to explore the dark side of campus, a side that few ever see.

We climb into the white truck that serves as his "office" much of the time and head toward Geer Hall, sight of one of the many steamflow meters that Long maintains.

"I thought it was all over after they took all of those pictures the other day," he says, seemingly apologetic for the fact that he's been the subject of so much attention lately.

"Upstairs was enough for me," he adds, referring to the Physical Plant's conference room (located above the plumber's shop), where he received Jan. 17 a plaque and citation for being selected by his co-workers as Employee-of-the-Year for 1983.

Arriving at Geer, we crawl into the basement recess of the dormitory, and Long wastes no time in explaining the mass of pipes that supply hot water and heat to the residents.

Hearing words like "OHMS meter" and "calibration manometer," one might ask where Long learned his trade.

Continued on Page 4.



The Clemson University Newsletter is published for Dixon Lomax, an accounting technician in financial management, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.



READING METERS -- Accurate readings of the amount of steam used monthly in University buildings are an important part of Charles Long's job as a plumber-pipe-fitter. This meter in the basement of Fike Recreation Center shows that 1,951,000 pounds of steam were used during November and December.

Continued from Page 3.

"Well, I never went to school on it," says Long, "but Honeywell (supplier of flow-meter components) did give us three days of instruction, and DHEC (Department of Health and Environmental Control) gave us a seminar on back-flow devices.

"Mostly, though, we learn by working together. That's how we get the job done. There're no heroes around here. We all work together."

Long reads all the steam and electric meters on campus. Along with dormitory residents, lab classes are especially dependent upon him. Since distilled water is important in many of those labs, Long must ensure that this water is free of impurities. A mix-up in the lines could spell trouble in important experiments.

"You never know when something might happen," Long says. "But we can usually isolate a problem to one or two buildings, so we don't inconvenience many if a problem occurs."

One place where it's sometimes hard

to isolate a problem is the football stadium, where Long has worked at all home games for the last three years as lead man responsible for all plumbing in the bathrooms and stadium boxes -- a mighty big task in the state's largest athletic facility.

"If a major problem develops, I have to cut the water on an entire half-side," Long says. "We're talking about inconveniencing a bunch of people."

During the games, Long and the plumbing crew usually keep things running smoothly, but with such a massive system, things are bound to go wrong.

"Once when a toilet was overflowing in the ladies' room, I needed to cut the water off. Those ladies said no way -- they'd been waiting in line too long. Finally I had to get security (to clear a path).

"Another time, during the '82 season, Western Carolina's dressing room flooded, and the boys had to dress on benches. But the coach was a good sport," Long says, smiling.

From the football stadium, the base-

ment of Jordan Hall is the next stop. To the inexperienced eye, all the pipes look the same. Not to Long. He explains the variations in detail and, in the process, spots an old screwdriver he lost some time ago. "I've been lookin' for that," he quips.

The Newry native, who lives with his wife and three children in Walhalla, came to Clemson in April 1972, and has seen a lot of good days. One of his happiest, however, was the day the prefabs came down.

"Trying to read those meters and fight off people's dogs at the same time," he recalls, "was something else."

Long's other responsibilities include installing potable water, gas, air vacuum, and sewer lines. He also maintains various fire sprinklers and alarm check-valve systems around campus.

Nothing in this life is free, but we take a lot of things for granted. Water is one such thing. Charles Long makes sure that we can keep on doing just that.

BARRETT ACCEPTS PERMANENT POST IN INTERNAL COMMUNICATIONS PROGRAM

Joyce Durham Barrett has been appointed assistant internal communications editor, accepting on a permanent basis the post she's held as a temporary assignment since October 1982.

She will continue to be assistant editor of the University Newsletter and will become assistant editor of the Clemson University News.

Barrett, a former newspaper reporter and editor, has been a special assignments reporter for The Easley Progress newspaper and managing editor of The Pickens Sentinel newspaper and Upcountry Lifestyle magazine.

In 1981, while with The Pickens



Barrett

Sentinel, she won Blue Cross/Blue Shield Insurance Co.'s statewide Buchanan Award for Excellence in Health Care Reporting.

Last month, an article she wrote for The Progress on death and dying placed third in the S.C. Press Association's McKissick Award competition for best feature story appearing in a state daily or non-daily newspaper in 1983.

Barrett has published fiction and non-fiction in numerous regional magazines and in national magazines including Lady's Circle, Home Life and Redbook.

A 1966 graduate of the University of Georgia, Barrett, 40, was a public school English teacher for 10 years before turning to a professional writing career.

"It's great having Joyce on the staff," internal communications editor Jack McKenzie said in announcing Barrett's appointment.

"She's a very talented and versatile writer, and she's fun to work with. I know she will continue to be a big plus for the internal communications program."

'REGENCY' HIGHLIGHTS BLACK HISTORY MONTH

Regency, a five-member, a cappella, vocal group, this Friday will continue

Continued on Page 6.

Continued from Page 5.

the University's observance of Black History Month.

Mickey Lewis, assistant dean of student life, says Black History Month fosters awareness of black history through academic and cultural events.

Regency, who sings everything from '50s rock 'n roll to beach music to the latest Michael Jackson hits, will perform Feb. 17 at 8 p.m. in Tillman Hall Auditorium. General admission is \$3. For students, admission is \$2.

On Sunday afternoon, the 19th, also in Tillman, a musical concert will feature selections from "Porgy and Bess." The performance, free and open to the public, will begin at 5:30 p.m.

Other activities during the month have included plays and a concert by the Clemson University Gospel Choir.

APPLY FOR RESEARCH AWARDS BEFORE MARCH 1 DEADLINE

Remember the March 1 deadline, if you're planning to apply for a 1984 Provost Research Award.

In April, 25 of the \$2,000 awards will be given to stimulate the initiation and completion of research activities among members of the faculty.

The University Research Grant Committee will make awards after a blind, non-peer review of the applications. Research objectives, feasibility and significance, as well as compliance with application instructions, will be major considerations in the review.

Application forms and instructions are available from the Office of University Research, E-102 Martin Hall. Call 656-2375 for more information.

JOHN SPRAGINS APPOINTED TO IEEE EDITORIAL BOARD

John D. Spragins, a professor of electrical and computer engineering, has been appointed to the national editorial board of Transactions on Computers, a publication of the Institute of Electrical and Electronics Engineers.

Transactions on Computers, a monthly journal containing research papers about terminal computers, is a major publication in the field of electrical and computer engineering.

In the lifetime position, Spragins will review papers sent to the editorial board and will have final authority to reject papers submitted.

Spragins, who has worked in the engineering field for 20 years, came here from Oregon State in 1980. He is a member of the Association of Computer Machinery and the IEEE's Communications, Reliability and Computer Societies.

WANT TO 'JUST PLAY' MUSIC? THEN JOIN THE READING BAND

Maybe you played a mean clarinet or flute or trumpet once upon a time. But now? Nah, somehow you just don't quite have the time -- or is it the encouragement -- to start it up again.

Come on, then, polish up that brass, dust off those keys, and join the music department's "Reading Band," says assistant band director Rick Goodstein.

The Reading Band, formed last semester by music department head John Butler, University band director Bruce Cook, and Goodstein, is open to anyone who plays a musical instrument.

"We'd like to see anyone who just enjoys playing music," says Goodstein. "And although we don't now give perform-

ances -- we just meet to play -- we might consider going public at a later time."

The Reading Band (so-called because members should be able to read music) meets in the band room of the YMCA at 5 p.m. on practice days.

Future meeting dates are Feb. 23, March 1 and 8, and April 5, 12 and 26. If you'd like more information on the Reading Band, call Goodstein at 656-3380.

NOBLES, TAVERN KEEPERS, BAWDS TEAM UP IN THE PLAYERS' 'MEASURE FOR MEASURE'

A duchess who hands her authority over to her deputy, Angelo, after her leniency has resulted in a city full of permissiveness, sets the stage for conflict in this month's Clemson Players' production, "Measure for Measure."

The play, says director Jere Hodgin, is rich in Shakespeare's assortment of characters, ranging from nobles to tavern keepers and bawds.

"Because of its departure from Shakespeare's earlier festive comedies," says Hodgin, "critics and scholars describe it as a 'problem comedy' or a 'dark comedy.'"

The cast of the play, directed by Hodgin and technical director Clifton Egan, includes Kimberly Hall as the duchess, Craig Riley as Angelo, Terry Thompson as Escalus, Scott Lamar as Lucio and Teresa Davis as Isabella.

Performance dates are Feb. 18, 21, 22, 24 and 25 at 8 p.m. and Feb. 19 and 23 at 3:30 p.m.

Tickets are \$2 for general admission, \$1 for faculty and staff, and free to students with an activity card. Call 656-2476 for reservations.

NURSING STUDENTS FIND EMPLOYEES UNAWARE OF HYPERTENSION

Results of the campus-wide hypertension screening conducted last fall by the College of Nursing indicate there may be many employees here who are experiencing hypertension without being aware of it.

During the screening, coordinated by assistant nursing Prof. Carol Schwartz, nursing students checked the blood pressures of 1,385 members of the faculty, staff and student body.

Of those checked, 263 had readings of 140/90 or higher, a rate considered to be hypertensive.

According to Schwartz, 91 were aware of their hypertension and were being treated; five were aware of their condition but were not being treated; and 167 hypertensive individuals were unaware of their condition.

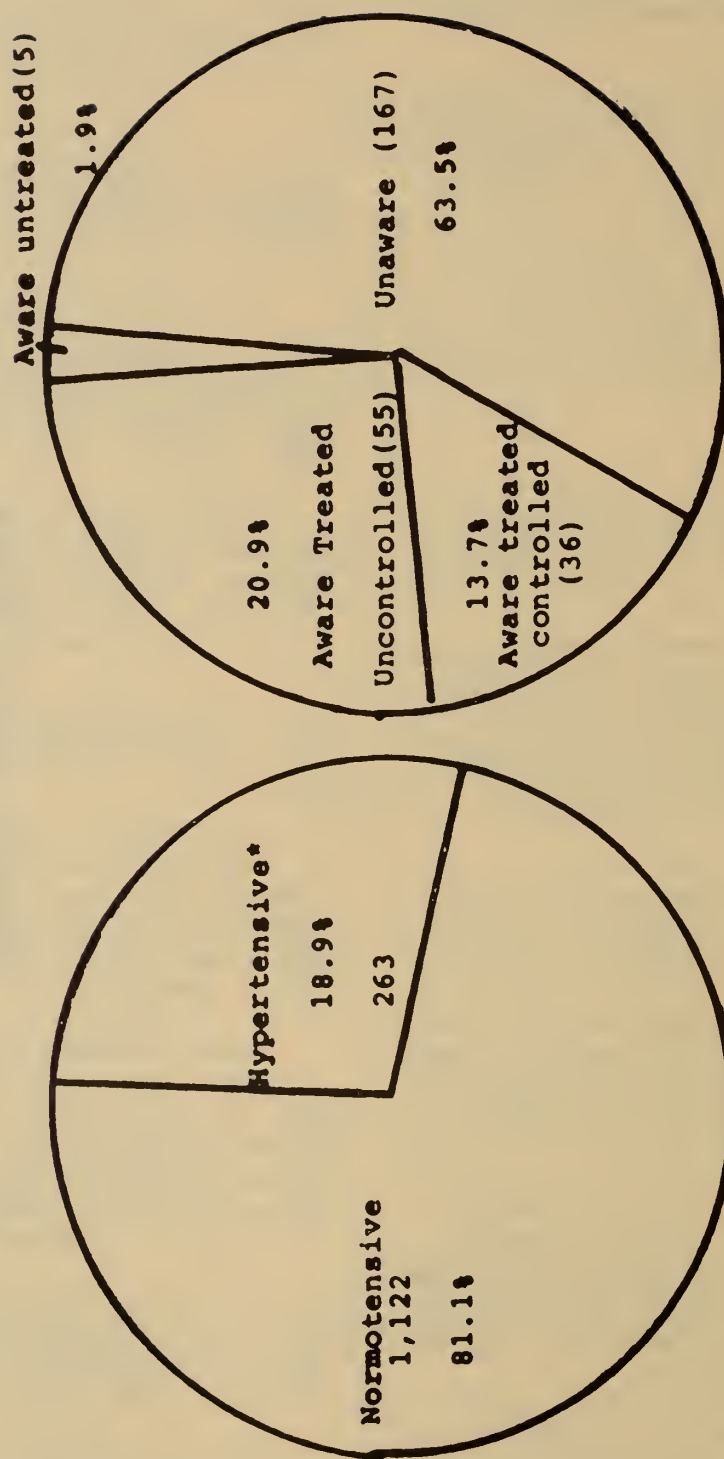
Those found to be experiencing hypertension were referred to the Nursing Center for follow-up care, which consists of additional blood pressure checks, counseling on how to avoid hypertension by exercise and diet, and in some cases referral to a doctor for treatment.

If you would like to have a blood pressure check, stop by the Nursing Center in the College of Nursing, says Schwartz. The Center is open daily.

For the complete results of the screening, turn to Page 8.

CAMPUS BLOOD PRESSURE SCREENING FALL 1983

ADULTS (AGE 18 AND OVER)



TOTAL POPULATION

HYPERTENSIVE* POPULATION

*Blood pressure 140/90 or higher

FEB 22 1984

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



ATLANTA MAYOR ANDREW YOUNG TO SPEAK HERE MARCH 8

Atlanta mayor and former U.N. ambassador Andrew Young will be speaking here March 8 as a participant in the fifth annual President's Honors Colloquium.

Young, who has been active in issues of public policy and social change as a civil rights leader, as a congressman, as ambassador to the United Nations and as mayor of Atlanta, will be talking about the South and the Third World in Tillman Hall Auditorium at 8 p.m.

According to director of the Honors Program Jack Stevenson, the colloquium this year focuses on the theme "Exciting Frontier: The South and The Third World."

Mayor Young's involvement in Third World issues and policies stems from his role as president of Young Ideas Inc., a nonprofit organization that addresses public policy questions and assists individuals and groups involved in a wide range of domestic and foreign policy questions.

According to Stevenson, the organization is instrumental in helping to develop Southern businesses and emerging Third World nations.

"Mayor Young, for example, frequently focuses on building contacts between Southern corporations and these developing nations," says Stevenson, "which is a mutually beneficial arrangement."

In addition to Young's achievements in the civil rights movements of the '60s, he served as Georgia U.S.

representative from 1972-78, and as U.S. ambassador to the United Nations from 1977-79. In 1981 he was elected mayor of Atlanta.

A graduate of Howard University and the Hartford Theological Seminary, Young has pastored churches in Alabama and Georgia. He has been associate director of youth work for the National Council of Churches, an executive of the Southern Christian Leadership Conference and a chairman of the Atlanta Community Relations Commission.

Young has received numerous honorary degrees and awards, including the Presidential Medal of Freedom, the nation's highest civilian honor.

Young's address in Tillman is free and open to the public.

PROFESSOR USES TOYS TO SHOW THAT 'PHYSICS CAN BE PHUN'

There's a metal button on the bulletin board in Ray Turner's office that reads, "Physics is Phun." And many a student who enters this professor's classroom expecting to be confused, intimidated or just plain bored by the subject of physics agrees with the philosophy before class ends.

You see, Turner, an associate professor of physics, lets his students play with toys during class. It's part of his strategy to prove that physics is, if not "phun," at least understandable.

Continued on Page 2.



PHUNNY PHYSICS --
Toy cars, drinking
birds, wind-up hoppers,
and Wheel-O's -- such
are the things that make
'physics phun' for
students in Prof. Ray
Turner's classes. Be-
sides being fun, the
toys demonstrate the
laws of physics,
which Turner says
basically deal with
understanding why
things happen.

Continued from Page 1.

"Young people have a preconceived notion that physics is a course to be feared and avoided," Turner says. "While the principles aren't trivial, it's possible to grasp the fundamental ideas simply by looking at objects around you and trying to understand how they work."

The perfect "objects" to observe, he has found, are toys. They're familiar to all students, fun to use and, except for dolls and models, they do something.

A wind-up toy car demonstrates the principles of potential energy and kinetic energy, he says, while the racing models that hurtle down inclined tracks, picking up speed as they go, show what gravitational energy is all about.

All three concepts can be shown using those wind-up kangaroos or gorillas that flip over and land on their feet to flip again.

The properties of buoyancy and gas compression are evident in Cartesian divers, those water-filled plastic tanks holding a weighted "diver" that sinks to the bottom when the tank is squeezed.

"A real popular one is the drinking bird," says Turner, "because nearly everyone has seen one of those clear plastic ducks that bobs back and forth as if it's drinking from a cup.

"You start it going by wetting the head and tipping it over. As the head cools from evaporating water, it reduces pressure inside the plastic tube and keeps the liquid moving. From watching the drinking bird, you can get some idea of the effects of cooling on pressure and equilibrium."

This month Turner took his wind-up hoppers, Wheel-O's, toy periscopes and water rockets to San Antonio, Texas, and the joint meeting of the American Physical Society and the American Association of Physics Teachers -- THE physics groups in the United States.

There he gave a workshop for other harried physics teachers looking for ways to hold student interest.

"I got interested in using toys when my own children were young," he says. "As I shopped for Christmas presents, I'd see things I could use to demonstrate certain principles in class. It just evolved into a full-blown presentation that I usually use in my introductory classes."

Turner is also a popular speaker with high school classes and science clubs. He's even presented lectures on physics to spellbound groups of second- and third-graders, who sometimes make a better audience than the college crowd.

"At that age, they're always asking 'why,'" he says. "Basically, that's what physical laws are all about -- understanding why things happen."

SCHOLARSHIP CREATED TO AID ASPIRING POULTRY SCIENTISTS

The age-old question of why the chicken crossed the road, along with other important questions of the day that abound in the poultry industry, may someday be answered by people who will be indebted to a man named John C. Shelley.

Future students entering the poultry science program here will vie for the John C. Shelley Memorial Scholarship, established in honor of the 1938 Clemson graduate who has spent

most of his life in the poultry industry.

The scholarship will be awarded for the first time when the fall semester convenes.

Interest from an \$11,000 endowment will initially provide a scholarship for one student, according to Bobby Barnett, head of the poultry science department. As the principal on the investment grows, the number of scholarships awarded each year may increase.

Freshmen who plan to major in poultry science will receive first consideration, Barnett says.

Sophomores, juniors and seniors in poultry science, as well as students in the College of Agricultural Sciences will then be eligible for consideration.

Shelley, a native of Marion, received his bachelor's and master's degrees from Clemson in 1938 and 1939. His involvement with ROTC here led to a stint with the U.S. Army, where he attained the rank of lieutenant colonel before retiring in 1945.

Shelley is also a veteran of the Extension Service, where he spent two years before entering private industry.

He currently lives in Columbia where he is associated with Rich of Carolina, a Newberry turkey company and subsidiary of General Foods Corp., which also contributed to the endowment.



The Clemson University Newsletter is published for Joyce Jewell, a custodial worker in the P&A Building, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

AUGUSTA BALLET FINDS 'A PLACE TO DANCE' RIGHT HERE IN TILLMAN AUDITORIUM

From the classical music of Bach, Vivaldi and Tschaikovsky to the Big Band

Continued on Page 4.

Continued from Page 3.

sounds of Les Brown, Count Basie and Guy Lombardo, the Augusta Ballet Company will be presenting another precision performance here Feb. 27.

Directed by Ron Colton and Zanne Beaufort, the touring troupe will be performing in Tillman Hall Auditorium at 8 p.m., their repertoire including "A Place to Dance," "Pas De Deux From Swan Lake," "Red Wagon," and "Episode."

"Episode," inspired by journalist Betty Rollin's book, "First, You Cry," portrays a young woman struggling to regain her self-identity after a severe personal tragedy.

"Episode" was chosen in 1979 for the Mellon Foundation choreographic list, a compilation of ballets that are deemed worthy of funding for productions by other companies throughout the country.

A part of the fifth annual Performing Artist Series, the ballet is sponsored by the University Union and the Alumni Association.

Tickets for the event are \$4 and may be purchased at the University Union Box Office or at the door. Call 656-2461 for ticket information.

CHOLESTEROL MAY BE GOOD FOR YOU

It's become a dirty word over the years, linked with such physical impairments as clogged-up arteries and heart disease. But cholesterol may be good for you -- if it's the right kind, says Susan Baker, a graduate student in the College of Nursing.

Researchers, she says, have found a beneficial form of cholesterol, high-

density lipoprotein (HDL), that has actually been linked with lower amounts of heart disease.

"Not much is known about HDL," says Baker, "but some scientists think it somehow keeps other cholesterols from attaching to the wall of the artery."

Thus, HDL, which accounts for about 20-25 percent of your cholesterol level, she says, may help prevent arteries from becoming clogged.

"Another theory," she says, "is that HDL either moves fats and other cholesterols out of body tissues or keeps them from ever entering tissues."

Although researchers are unsure of HDL's action, she says, they are finding that people with certain characteristics are significantly more likely to have higher levels of HDL.

According to Baker, the typical high HDL person is slender, doesn't smoke, exercises, consumes moderate amounts of alcohol, is well-educated and has a low intake of sugar and starch.

"Data produced so far," says Baker, "indicates that these qualities may increase a person's HDL level and reduce the risk of heart disease."

LAST CALL FOR RESEARCH AWARD APPLICATIONS

March 1, the deadline for applying for a 1984 Provost Research Award, is almost here, so if you'd like to be considered for one of the 25, \$2,000 awards, make haste.

Application forms and instructions are available from the Office of University Research, E-102 Martin Hall. Call 656-2375 for more information.

FEB 22 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

Feb. 24-March 2

WORKSHOPS, SEMINARS AND LECTURES

- 25 Workshop: "How to Select Computer Software and Hardware for Construction Contractors," focusing on microcomputers, with course workbook available. Sponsored by College of Architecture, Lee Hall, 8:30 a.m.-noon. Call 656-3081 for more information.
- 27 Short Course: "Basic Airbrush." Sponsored by University Union. Godfrey Hall, 6-9 p.m. Sign up at Information Desk or call 656-2461 for more information.
- 27 Clemson Architectural Foundation Lecture Series: Peter Plagens, artist and a professor of art at UNC-Chapel Hill, reviews artists' works. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 28 English Hour lecture: Best Graduate Student Paper for 1983. Sponsored by English department, Strode Tower Lounge, 8 p.m. Open to public. Free. Call 656-3151 for more information.
- 28 Workshop: "Developing a Team That Works." Sponsored by Nursing Continuing Education, 310 College of Nursing Building. Preregistration required. Call 656-3078 for more information.
- 28- Workshop: "Engineering Applications of Microcomputer Spread
March 1 Sheets." Sponsored by Continuing Engineering Education, 367 Sirrine Hall. Call 656-3308 for more information.
- 28 Workshop: "CPR #2." Sponsored by University Union, Student Government Building, 7-10 p.m. Call 656-2461 for more information.
- 29 Workshop: "Copyright It Yourself." Sponsored by University Union, Senate Chambers, 7-8 p.m. Call 656-2461 for more information.

MUSIC, DRAMA AND EXHIBITS

- 24- 1984 South Carolina Arts Commission Annual Exhibition. Sponsored
March 9 by South Carolina Arts Commission, College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

CU EVENTS (Cont.)

- 24-25 "Measure for Measure," a Clemson Players' production. Daniel Hall Auditorium, 8 p.m., students free, faculty and staff, \$1, others \$2. Call 656-2476 for reservations and information.
- 26-27 Auditions: Clemson Players' production, Daniel Hall Annex, 7:30 p.m. Open to public. Call 656-2476 for more information.
- 27 Performing Artist Series: The Augusta Ballet Company. Sponsored by University Union and Alumni Association, Tillman Hall Auditorium, 8 p.m. Individual tickets \$4; season tickets available. Call 656-2461 for more information.
- 28 Chamber Music Series: Robert Jesselson and Charles Fugo, music for cello and piano. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 26 "The Birds." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 27-29 Hitchcock Film Festival. Sponsored by University Union, Y-Theatre, advanced ticket, \$2.50, includes four movies. Call 656-2461 for more information.
- 27 "Psycho I." Sponsored by University Union, Y-Theatre, 8 p.m., \$1. Call 656-2461 for more information.
- 28 "I Confess." Sponsored by University Union, Y-Theatre, 8 p.m., \$1 with University I.D. Call 656-2461 for more information.
- 28 "Culture as Nature," part VII of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lee Hall, Lyles Auditorium, 4-5 and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.
- 29 "Strangers on a Train" and "Dial M for Murder." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1. Call 656-2461 for more information.
- 29 "Psycho II." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 26 Basketball: North Carolina, here, women, 1:30 p.m.
- 26 Basketball: North Carolina, here, men, 4 p.m.
- 27-29 Baseball: Ball State, here, 3 p.m.
- March 1 Baseball: Old Dominion, here, 3 p.m.

CU EVENTS (Cont.)

OTHER EVENTS

- 25 Travel. Outlet shopping in Hendersonville, N.C. Sponsored by University Union, 9 a.m.-5 p.m., \$6.75. Call 656-2461 for more information.
- 27 Reception following the Augusta Ballet. Sponsored by University Club, Alumni Center, 10 p.m. Call 656-2345 for more information.
- 27 Carolina Journal: Tom Collins, an assistant professor of physics and astronomy, talks about future directions in the space program. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 29 All Campus Tiger Bowl. Sponsored by University Union, Palmetto Room, 6:30-10:30 p.m. Sign up at Union Information Desk. Call 656-2461 for more information.
- March 1 "The Reading Band" rehearsal. Sponsored by music department, Holtzendorf YMCA, band room. Open to anyone who plays a musical instrument. Call 656-3380 for more information.

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February 29, 1984
Vol 23 No 26 (24)

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



MAR 5 1984

BETTY FRIEDAN TO SPEAK HERE DURING WOMEN'S HISTORY WEEK

Betty Friedan, founder of the National Organization of Women, author of "The Feminine Mystique," and a catalyst in the women's rights movement, will be the key speaker during the University's observance of Women's History Week March 5-9.

Friedan will speak on "New Men and New Women in a New World" at 8 p.m. March 9 in Tillman Hall Auditorium. A reception for her will follow in the Penthouse of the Clemson House.

Sociology Prof. Helen Clark, who is chairing the event, says Friedan most likely will examine the woman-man relationship as defined in her latest book, "Second Stage."

Margaret Bryant, a retired linguistic scholar, author, and professor of English at New York City University, will begin Women's History Week activities with a March 5 luncheon address in the Gold Room of the Clemson House.

She will talk about "A Woman in a Man's World Since the 1920's." For reservations call 656-3264.

On March 7, women's basketball coach Annie Tribble will talk on "The Effects of Competitive Athletics on the Perception of Women in Society." She and an outstanding female athlete will be presented an award for their contributions to women's sports.

Tribble will speak at 4 p.m. in 301 Kinard. A reception will follow in 305 Martin Hall.

Other events scheduled for the week include:

-- March 7: Alice Matthews, a professor of history at Western Carolina University, will talk on "Writing the History of Non-elite Women" and will show a film, "Coal-mining Women," in Hardin Hall Auditorium at 3:30 p.m., this event sponsored by the history department;

-- March 7: Women's Fiction Festival begins at 4 p.m. in 108 Strode with readings by guest authors Emily Ellison from Atlanta and Doris Betts, a professor of English at the University of North Carolina;

-- March 8: Fiction festival continues with fiction workshops at 9:30 and 11:30 a.m. in 108 Strode Tower;

-- March 8: Women Writers Forum, 108 Strode, at 3:30 p.m. with Ellison, Betts and a guest author to be announced, moderated by Zohreh Sullivan, a critic and an associate professor of English at the University of Illinois at Urbana;

-- March 9: A panel, meeting in Daniel Hall Auditorium at 2 p.m. and moderated by Mary Ferguson, a professor of English at the University of Georgia, will present papers on "Living Women Writers."

Sponsors for the week's activities are the College of Liberal Arts, the Georgia-South Carolina College English Association, the S.C. Committee for the Humanities and the Thurmond Institute.

All events are free and open to the public.

CLUB ADVISERS ASKED TO INFORM
STUDENTS OF LEADERSHIP SERIES

New leaders need new ideas, lots of them, so the Office of Student Life is offering a student leadership development series to help newly elected student leaders run their clubs and organizations more efficiently.

And, if you are an adviser to a club or organization, Teresa Paschal Evans, assistant dean of Student Life, would like your help in spreading the word of the series.

The program, "New Ideas for New Leaders," has been created, she says, "to offer insights, information and tested techniques to aid the emerging or developing leader."

Seven sessions, on topics ranging from "How to Keep an Organization Progressing" and "How to Create a 30-Hour Day" to "How to Run a Meeting Before It Runs You," will be offered March 5-7 in the Student Government Complex.

All sessions are free, and most of them will be offered more than once. However, each session will be limited to 25 students, so early registration is encouraged.

"If you are an adviser to a student club or organization," says Evans, "or if you know of any student leaders who may benefit from these series, please encourage them to participate."

Registration forms are available from Evans in 101 Mell Hall. Call her at 656-2153 for more information.

JAZZ FLUTIST LESLIE BURRS
TO PRESENT INFORMANCE

NCR Affiliate Artist Leslie Burrs, a jazz flutist who has earned a reputation as a performer, educator, composer and

arts administrator, will be in the Clemson community March 1-7 for a series of informances.

Burrs will present a public performance in Tillman Hall Auditorium March 5 at 8 p.m. Admission will be \$1.50 with a University I.D. and \$2.50 for the public. Group rates are available.

Burrs has toured with the Duke Ellington Orchestra and with jazz saxophonist Grover Washington Jr. With Washington, Burrs was a guest soloist performing his own compositions.

The Philadelphia native is a graduate of the Philadelphia College of the Performing Arts, where he founded the Creative Artists Workshop, a nonprofit organization dedicated to fostering interest in lesser-known and minority musicians and composers.

Burrs is currently touring communities and college campuses throughout the country and was selected in 1982 to join the roster of Affiliate Artists.

His appearance here is sponsored by the NCR Corporation, with additional assistance from the National Endowment for the Arts.

ATLANTA MAYOR YOUNG TO SPEAK ON
THE SOUTH AND THE THIRD WORLD

Atlanta Mayor Andrew Young, who has devoted his adult life to issues of public policy and social change, will speak March 8 at 8 p.m. in Tillman Hall Auditorium.

Young's address, "Exciting Frontier: The South and the Third World," is a part of this year's President's Honors Colloquium, which focuses on the South and the Third World.

Young has worked on Third World issues as ambassador to the United Nations under President Jimmy Carter and

as president of Young Ideas Inc., a non-profit organization working to establish ties between Southern businesses and Third World nations.

The Honors Colloquium, which brings nationally known speakers here, is sponsored by Calhoun College, the honors program.

Young's address is free and open to the public. A reception will follow at the Alumni Center.

LIBRARY SPECIAL COLLECTIONS OFFERS SPECIAL HOURS FOR EVENING RESEARCHERS

The Special Collections Unit of the Cooper Library has extended its hours and is now open until 9 p.m. on Tuesdays.

Hours remain the same -- 8 a.m. to 4:30 p.m. -- on Mondays, Wednesdays, Thursdays and Fridays.

Head of Special Collections Mike Kohl says Tuesday hours have been extended for researchers whose daily

schedules force them to do their research in the evenings.

"Since the University archives and rare books are located in Special Collections," says Kohl, "we hope this might be a convenience for those people engaged in historical research who may not be able to come during the day."

For more information on Special Collections, call Kohl at 656-3031.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

Chemical Engineering

C. H. Gooding (Asst Prof) published "Estimating Flash Point and Lower Explosive Limit" in Chemical Engineering 90, 25, 88 (1983).

Chemistry

R. A. Abramovitch (Prof) presented the following invited lectures:

-- "Sigmatropic Rearrangements of Heteroaromatic N-Oxides" at Ciba-Geigy Research Labs in Basel, Switzerland, Nov. 29;

-- "Enium Ions: Generation and Synthetic Applications" at ETH in Zurich, Switzerland, Dec. 5; and

-- "Aryloxypyridinium Salts: Useful Synthons" at the University of Zurich, Dec. 6.



The Clemson University Newsletter is published for Sherry McKeon, a clerk in Student Life, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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K. Dill (Asst Prof), M. E. Daman (Grad Stu), R. L. Batstone-Cunningham (Vstg Instr), A. A. Pavia (Prof, Centre Universitaire d'Avignon, France), and M. Denaire (Grad Stu, CUA) have published a paper, "¹³C-NMR Spectral Study of the Mode of Interaction of Gd³⁺ and Mn²⁺ With Two Vicinally Di-O-D-Galactosylated Tripeptides," in Carbohydrate Research 124 (1983) 11-12.

Prof. Dill has published a review of "Magnetic Resonance in Biology. Vol. 2," (ed., J. S. Cohen, National Institute of Health) in the Journal of the American Chemical Society, Vol. 105 (1983) 7796.

J. W. Huffman (Prof) presented a paper, "Synthetic Approaches to (+/-)-Ibogamine," at the Tenth Mona Symposium on Natural Products and Medicinal Chemistry at the Kingston, Jamaica Campus of the University of the West Indies, Jan. 3-7.

J. S. Thrasher (Vstg Asst Prof) has had "Tetraisocyanosilane" and "(Fluorocarbonyl) Imidosulfurous Difluoride" accepted for publication in Inorganic Synthesis 24 (1985).

Prof. Thrasher published "Solvent Effects in Fluorine - 19 NMR Spectroscopy: Nonuniform Shifting of the Axial and Equatorial Fluorine Resonances of the Pentafluorosulfanyl Group" in the Journal of Fluorine Chemistry, 24 (1984) 205.

Chemistry and Geology

J. D. Petersen (Assoc Prof and Assoc Dean-Sci) presented a seminar, "Preparation Spectroscopy and Photochemistry of Mono- and Polymetallic Complexes of 2,2'-Bipyrimidine" at Brookhaven National Laboratory, Long Island, N.Y., Jan. 10.

Prof. Petersen organized a symposium, "Inorganic and Organometallic Photochemistry," for the 35th Southeastern Regional Meeting of the American Chemical Society in Charlotte, N.C., Nov. 9-11. Invited speakers included scientists from Italy and Belgium, and support was obtained from American Hoescht, Milliken, and Petroleum Research Fund.

At that symposium the following papers were presented:

-- "Photoracemization/Photosubstitution of Optically Active Complexes of Rhodium (III) Amines" by Prof. Petersen and L. S. Lee (Grad Stu); and

-- "Spectroscopy and Photochemistry of Polymetallic Complexes of 2,2'-Bipyrimidine" by Prof. Petersen, R. R. Ruminski (Vstg Inst), K. D. Van Tassel (Former Grad Stu), and K. J. Moore (Former Edwards Fellow).

Computer Center

C. J. Duckenfield (Dir) had an invited paper, "Videotex--A Campus Application," presented by R. Nelson (Lect) at the CAUSE conference in San Francisco, Calif., in December.

Duckenfield published "The Dark Side of Technology" in Management Technology, (November, 1983) and it was reprinted in Cause/Effect, (December 1983).

B. C. Hubbard (EDP Prod Serv Supv) was elected secretary for the Palmetto Chapter of Data Processing Management Association for 1984 Board of Directors.

Computer Science

D. H. Hutchens (Asst Prof) and V. R. Basili (Prof, Univ. of Md)

have published "An Empirical Study of a Syntactic Complexity Family" in the IEEE Transactions on Software Engineering, (November 1983) 664-672.

Economics

N. K. Womer (Prof) presented a paper, "An Automated Production Cost Model," at the Federal Acquisition Research Symposium Dec. 7-9. It was published in the Proceedings and placed third in the paper competition sponsored by the National Contract Management Association.

English

H. B. Bryant (Assoc Prof) received a grant from the Southern Regional Education Board to do research on 20th century British literary magazines at Duke University Library and the University of North Carolina Library at Chapel Hill, N. C.

F. L. Day (Assoc Prof) published "The Novels of Arthur Koestler" in Critical Survey of Long Fiction, ed. Frank Magill. (Los Angeles: Salem Press, 1983) 1547-1555.

B. K. Duffy (Asst Prof) chaired a session, "Studies in Rhetoric and Public Address," which he organized for the Carolinas Speech Communication Convention in Charlotte, N.C., Sept. 30.

Prof. Duffy published "The Anti-Humanist Rhetoric of the New Religious Right" in The Humanities: The Contemporary Scene, ed. F. F. Ritsch (Medical University Press [for the Southern Humanities Conference] 1983) 30-41.

The following papers were presented at the 69th Annual Speech Communication

Association Convention in Washington, D.C., Nov. 10-13:

-- "The Anti-Humanist Rhetoric of the New Religious Right" by Prof. Duffy;

-- "Fundamentalism, Liberal Education and Freedom of Speech: An Issue for the Public Speaking Instructor" by Prof. Duffy and S. Duffy (Asst Prof); and

-- "Watchdogs of the American Theatre 1910-1940" by Profs. Duffy.

Profs. Duffy also read "Theatrical Responses to Technology During the Great Depression: Three Federal Theatre Project Plays" at the Interface Humanities and Technology Conference in Atlanta, Ga., Oct. 21.

R. W. Hill (Assoc Prof) published a poem, "Mike, 10, at Basketball," in Sport Scene, 3, No. 1 (January 1984) 5.

J. L. Idol (Prof), vice-president of the Nathaniel Hawthorne Society and editor of the Hawthorne Newsletter, attended a joint meeting of the Modern Language Association and the Nathaniel Hawthorne Society in New York Dec. 27-30.

Prof. Idol published "Mary Russell Mitford: Champion of American Literature" in Studies in the American Renaissance 1983, ed., J. Myerson, 313-334.

Prof. Idol reviewed Going on Like This by J. R. Gardiner for Studies in Short Fiction, 20, No. 4 (Fall 1983) 328-39.

N. B. Lafferty (Instr) presented a workshop on effective speaking and D. D. Moore (Vstg Instr) presented a workshop on effective writing at the Greenville Urban League's Project ELECT, a series of leadership training sessions for minorities, in Greenville in December.

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M. H. Moran (Vstg Asst Prof) published the instructor's manual to accompany Readings for Technical Writers, Scott, Foresman and Company, (December 1983).

R. W. Moran (Prof) has had a poem, "The Branch Bank," selected for inclusion in the 1984 edition of the Anthology of Magazine Verse & Yearbook of American Poetry. The poem was first published in The Southern Review (1983).

K. L. Osborn (Vstg Instr) published two poems, "Florida Vacation" in Tar River Poetry, (Fall 1983) and "Drowning in Sky" in The Seattle Review (Fall 1983).

C. F. Paulenich (Instr) published three poems: "Only We Can Prevent Forests" in Deros (June); "Defoliated" in Pig Iron (Spring); and "Carp" in Tar River Poetry (Fall).

C. H. Sawyer (Prof) represented Clemson as a member of the Governor's Task Force on Student Retention at a conference, "The Freshman Experience," in Columbia, Feb. 5-8.

D. C. Tillinghast (Asst Prof) published "On the Road West" (non fiction) in The Southern Review, 19, No. 4 (Autumn 1983) 907-912.

E. P. Willey (Assoc Prof) published two poems, "Five Senses Exercise: Terrorism" in California State Poetry Quarterly, 10 (1983) and "Family Eccentric" in Light Year '84 (Bits Press: Cleveland, 1983).

Environmental Systems Engineering

C. P. L. Grady Jr. (R. A. Bowen Professor), E. J. Kirsch (Prof, Purdue), M. K. Koczvara, B. Trgovich and R. D. Watt (Former Grad Stus, Purdue), published "Molecular Weight Distribu-

tions in Activated Sludge Effluents" in Water Research, 18, (1984) 239-246.

Extension Home Economics

L. L. Mahrer (Assoc Prof) was installed as national treasurer of the American Association of Housing Educators when she participated in the Association's Annual Conference at the University of Nebraska, in Lincoln, Oct. 4-7.

Finance

G. S. Sirmans (Asst Prof) has published the following articles:

-- "Assumption Financing and Selling Price of Single-Family Homes" with C. F. Sirmans (Prof, Real Est, LSU) and S. D. Smith (Asst Prof, Bus Adm, Emory Univ) in Journal of Financial and Quantitative Analysis, Vol. 18, No. 3 (September, 1983) 307-317;

-- "An Analysis of Market Extracted Overall Capitalization Rates" with Sirmans and B. T. Beasley in Commercial Investment Journal, Vol. III, No. 1 (Winter, 1984) 20-23;

-- "Adjusting Comparable Sales for Assumption Financing" with Sirmans and Smith in The Appraisal Journal, Vol. LII, No. 1 (January, 1984) 84-91; and

-- "The Effect of Assumption Financing on Residential Property Values" with Sirmans and Smith in Federal Home Loan Bank Board Journal, Vol. 16, No. 7 (August, 1983) 22-25.

Forestry

G. R. Askew (Asst Prof) and P. M.

Burrows (Prof, Exp Sta) published "Minimum Coancestry Selection - I. A Pinus taeda Population and Its Simulation" in Silvae Genetica 32(3-4):125-131.

The following papers were published in the Proceedings of the symposium, "Non-industrial Private Forests: A Review of Economic and Policy Studies" at Duke University in November:

-- "Forest Resource Values of Mississippi Nonindustrial Private Forest Land-owners" by D. C. Guynn (Prof), D. H. Nabi, T. B. Wigley and S. P. Mott (MSU); and

-- "A National Survey to Determine Public Outdoor Recreation Opportunities on Nonindustrial Private Forest and Rangelands" by H. K. Cordell (U S For Serv) and J. H. Stevens Jr. (Res For).

R. F. Harlow (Adj Prof) and Prof. Guynn published "Snag Densities in Managed Stands of the South Carolina Coastal Plain" in Southern Journal of Applied Forestry 7(4): 224-229.

R. A. Harris (Asst Prof) and M. A. Taras (Prof and Hd) published "Comparison of Moisture Content Distribution, Stress Distribution, and Shrinkage of Red Oak Lumber Dried By a Radio Frequency/Vacuum Drying Process and a Conventional Kiln" in Forest Products Journal 34(1): 44-54.

J. L. Haymond (Instr) presented "Environmental Protection" as part of a workshop on the safe use of herbicides sponsored by the S.C. Forestry Assoc. in Summer-ville, Columbia and Greenville in November.

Haymond presented "Herbicide Labels--What They Do and Don't Tell You" at a workshop sponsored by the University of Georgia, Nov. 10, in Athens, Ga.

C. E. Pehl (Univ of Ga) and K. F. Ray (Asst Prof) published "Atmospheric Nutrient Inputs to Three Forest Types in East Texas" in Forest Ecology and Management 7:11-18.

T. M. Williams (Asst Prof)

presented a paper, "Water Quality Changes on Poorly Drained Interstream Divides Being Converted From Hardwood to Pine Plantations," at the Southern Forest Hydrology Workshop in Wrightsville Beach, N.C., Oct. 31-Nov. 2.

Prof. Williams and D. J. Lipscomb (For Mgr) published "Logging History of Hobcaw Forest" as Dept. of Forestry Research Series No. 38.

G. W. Wood (Prof) and R. P. Ingram (Grad Asst) published "Characteristics of Woodcock Harvest Data in Coastal South Carolina" in the Wildlife Society Bulletin 11(4): 356-359.

4-H and Youth Development

E. J. Richardson (Assoc Prof), W. C. Clinkscales (Assoc Prof), and S. R. Mullen (Asst Prof) participated in the National Association of Extension 4-H Agents' Annual Meeting in Portland, Ore., Oct. 31-Nov. 4.

At the meeting B. S. Lawrimore (Co Ext Ldr, Charleston) received a citation for 25 years of service; M. A. Culler (Co Ext Ag Sr Assoc, Orangeburg) received an award for distinguished service to 4-H; M. E. Ouzts (Co Ext AgSr Assoc, Saluda) was chosen as Southern Region contact for the policy and resolutions committee; and J. Ensor (Co Ext Agt Assoc, Chesterfield) was selected Southern Region contact-elect for the programs committee.

Prof. Clinkscales participated in the National Invitational Resource Development Conference in Portland, Ore., Oct. 28-31.

History

D. M. McKale (Prof) has been named

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chairman of the European program committee for the 1985 Southern Historical Association annual meeting in Houston, Texas.

Horticulture

R. L. Anderson (Prof and Hd) participated in a USDA Cooperative States Research Review of the Pomology and Viticulture Programs of Cornell University, Nov. 29-Dec. 2.

J. A. Brittain (Prof and IPM Coord) presented a paper, "Extension IPM Programs in South Carolina," at the 10th International Congress of Plant Protection in Brighton, England, Nov. 20-25. The Congress was attended by 2,200 delegates, representing 71 countries.

R. G. Halfacre (Prof) presented an invited lecture, "Computer Applications for the Management of Horticultural Crops," at a conference sponsored by the North Central Computer Institute at the University of Minnesota, Nov. 2. Attending were 70 faculty representing 12 universities from the North Central region.

A. R. Mazur (Prof) and C. B. White (Former Grad Res Asst) published "Mineralization of N From Several Sources and Establishment of 'Penncross' Creeping Bentgrass on Putting Green Media" in Agronomy Journal Vol. 75 (Nov.-Dec.) 977-982.

Prof. Mazur presented an invited paper, "Chemical Aids in Winter Overseeding," at the 22nd Annual North Carolina State University Turfgrass Conference in Pinehurst, N.C., Jan. 4-5.

J. C. Neal (Former Grad Res Asst) and D. F. Wagner (Assoc Prof) published "Physical and Chemical

Properties of Coal Cinders as a Container Media Component" in Hort-Science 18(5): 693-695 (1983).

Housing



Leslie Williams of Clemson was chosen Custodian of the Month for November. He has been with the Housing Office since May, 1979.



Willie Mae Green of Pendleton was chosen Custodian of the Month for December. She has been with the Housing Office since July, 1979.



Mattie Hicks of Central was chosen Custodian of the Month for January. She has been with the Housing Office since May, 1970.

Industrial Engineering

J. A. Chisman (Prof) presented a paper, Anatomy of a Simulation Model, at the Fifth International Conference on Automation in Warehousing in Atlanta, Ga., Dec. 5.

Prof. Chisman has had several of his original epigrams published in "Thoughts for All Seasons," Vol. 2.

J. Haddock (Asst Prof) presented a paper, "Decision Support System for

Product-Mix Determination: A Case Study," at the ORSA/TIMS Meeting in Orlando, Fla., in November.

Prof. Haddock organized a seminar, "Energy," presented at the University of Puerto Rico, Mayaguez, Puerto Rico in November.

E. L. Thomas (Prof) presented a paper, "Application of Unified Data Base Technology" at the annual Reliability and Maintainability Symposium (RAMS) in San Francisco, Calif., Jan. 23-26. The paper was published in the Proceedings.

Interdisciplinary Studies

The Richards Orthopedic Manufacturing Company of Memphis, Tenn., has provided a \$3,000 grant to the Bio-engineering Program to aid in the preparation of graduate student brochure and information materials.

F. W. Cooke (Prof) served as an invited reviewer of research grant applications submitted to the Veterans Administration in Washington, D.C., Dec. 8-9.

Prof. Cooke and W. R. Kruase (Asst Prof) presented a series of invited lectures on biomechanics and biomaterials to the Department of Orthopaedic Surgery of the Medical University of South Carolina in Charleston, Oct. 14-15.

D. D. Moyle (Assoc Prof), M. C. Singh (Grad Asst), G. Singh (Princ Grad Asst, ECE) and R. B. Schuessler (Adj Assoc Prof) have published a paper, "Microcomputer Control of Canine Heart Rate Through Chronotropic Drug Infusion" in Medical and Biological Engineering and Computing, (November, 1983) Vol. 21, 702-709.

A. F. von Recum (Prof) served as a special reviewer of Small Business Research Incentive Grants submitted to

the National Institute of Health in Washington, D.C., Jan. 9-10.

Languages

The following participated in the Ninth Annual Comparative Literature Conference in Tallahassee, Fla., Jan. 26-28:

-- M. Cranston (Assoc Prof) chaired a session on technology and science; and

-- P. W. Wannamaker read a paper, "The Mystical Church in Boll's Fursorgliche Belagerung."

Prof. Cranston published a solicited review of Bernard Delvaille: Poemes 1951-1981 (Paris, Seghers, 1982) in World Literature Today, (Summer 1983).

J. B. Romeiser (Assoc Prof) gave a talk on Strasbourg and the Alsatian region of France to the French Club at Daniel High School in Clemson in November.

Management

J. K. Butler Jr. (Asst Prof) and H. S. Hill (Assoc Prof, Exp Stat) have had an article, "WINSBETS: A Program for Comparing Within-Subjects Variables and Statistics to Be Used in Between-Subjects Analyses," accepted for publication by Applied Psychological Measurement.

Prof. Butler published "Reciprocity of Trust Between Professionals and Their Secretaries" in Psychological Reports, Vol. 53 (1983) 411-416.

Prof. Butler and N. K. Womer (Prof, Econ) presented a paper, "Comparing Non-tested Expectancy-Valence Models: Some Effects of Cognitive Variables," at the

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1983 meeting of the Southern Management Association in Atlanta, Ga. The paper was published in the SMA Proceedings.

Prof. Butler has been named a consulting editor for Industrial and Organizational Psychology.

Prof. Butler reviewed two tests, "The T. A. Survey" and "The Meta-Motivation Inventory," for The Ninth Mental Measurements Yearbook.

W. H. Hendrix (Assoc Prof) has had two papers accepted for presentation:

-- "Effects of Stress on Individual Productivity, Absenteeism and Wellness" for the Psychology in the DOD Symposium in April; and

-- "Job and Personal Factors Related to Job Stress and Risk of Developing Coronary Artery Disease" for the American Industrial Hygiene Conference in Detroit, Mich., in May.

Prof. Hendrix has had a paper, "Factors Predictive of Stress, Organizational Effectiveness and Coronary Heart Disease Potential," accepted for publication in the Journal of Environmental Space and Aviation Medicine.

R. L. LaForge (Assoc Prof) and L. R. Bittel (Prof, James Madison Univ) published "A Survey of Production Management Supervisors" in Production and Inventory Management, Vol. 24, No. 4 (Fourth Quarter, 1983) 99-113.

Prof. LaForge, Prof. Bittel and R. S. Burke (Prof, Lord Fairfax Community College, Va) published the textbook, Business in Action, 2nd ed., McGraw-Hill (1984) and SSWEETCO: A Business Model and Activity File, 2nd ed., McGraw-Hill (1984).

T. L. Leap (Assoc Prof) and A. Pizzolatto (LSU) published "Robotics Technology: The Implications for

Collective Bargaining and Labor Law" in Labor Law Journal, Vol. 34, No. 11 (November 1983). The article is to be reprinted in Readings in Labor Economics and Labor Relations, 5th ed. (Richard D. Irwin, 1984) by Richard Rowan (Univ of Penn), and excerpts have been reprinted in Human Resources Management (December 1983) Commerce Clearing House Inc.

J. M. McDonald (Assoc Prof), R. Collins (Dean, Nursing, Greenville Tec) and A. Walker (Instr, Nursing, Greenville Tec) published "Success: A Program to Reduce Attrition Among Associate Degree Nursing Students" in the Nurse Educator, (Winter, 1984) Vol. IX, No. 1.

Prof. McDonald led a workshop on "Conflict and Negotiation," sponsored by the Journal of Nursing Administration, at the National Nursing Resources Conference in Chicago, Nov. 21.

C. W. McNichols (Prof) had a book, Microcomputer Based Data Analysis for the IBM PC, published by Reston Publishing Co. (January 1984).

M. J. Stahl (Prof and Hd) published a paper, "Achievement, Power and Managerial Motivation: Selecting Managerial Talent With the Job Choice Exercise," in Personnel Psychology, (December) 775-789.

Marketing

G. L. Waddle (Prof) presented a paper, "The Marketing of Legal Services," at the Southeastern Regional Business Law Association meeting Oct. 27-28, in Atlanta. The paper was selected to be published in the Proceedings of the meeting.

Mathematical Sciences

J. R. Brannan (Asst Prof), D. D. Warner (Assoc Prof), G. P. Forney

(Grad Stu) and R. F. Henrick (Johns Hopkins Univ) published "The Uniform WKB Modal Approach to Pulsed and Broadband Propagation" in Journal of the Acoustical Society of America 74 (5) (November 1983).

R. E. Jamison (Prof) published a book review of Join Geometries by Walter Prenowitz and James Jantosciak in The American Mathematical Monthly, Vol. 91, Nr. 2 (1984) 152-155.

Prof. Jamison discussed curriculum development in mathematics and related sciences at Ahmednagar College in Ahmednagar, Maharashtra State, India, Dec. 29-Jan. 2.

J. P. Jarvis (Assoc Prof), D. R. Shier (Prof) and J. K. Luedeman (Prof) published a paper, "Counterexamples in Measuring the Distance Between Binary Trees," in Mathematical Social Sciences, Vol. 4, (1983) 271-274.

W. H. Ruckle (Prof and Fulbright Visiting Scholar at Trinity College, Dublin) presented the following lectures under the U.S.-India Exchange of Scientists Program in India, Dec. 9-24:

-- "Matrix Mappings Between Sequence Spaces" at Aligarh Muslim University;

-- "The Linearizing Projection" at the Symposium on Modern Analysis in Delhi; and

-- four lectures at the Indian Institute of Technology in Kanpur.

D. D. Warner (Assoc Prof) and W. B. Gragg (Univ of Ky) published a paper, "Two Constructive Results in Continued Fractions," in the SIAM Journal on Numerical Analysis, Vol. 20, No. 6 (December 1983) 1187.

Mechanical Engineering

J. G. Goree (Prof), F. Folger and W. H. Krueger (E.I. duPont Pion Resch

Lab, Wilmington, Del) wrote a paper, "Fiber FP/Metal Matrix Composites in Reciprocating Engines," and Folgar presented the paper at the American Ceramic Society meeting in Cocoa Beach, Fla. The paper was published in the Proceedings of that meeting.

Music

L. U. Harder (Asst Prof) was elected vice-president of membership of the Southern Division of the Music Teachers National Association at the Southern Division auditions in Columbus, Ga., Jan. 20-22.

Nursing

S. W. Thompson (Asst Prof) and D. Verbeek (Greenville Hospital System) had the article "Nursing the Poisonous Snakebite Victim" accepted for publication in the American Journal of Nursing, (April 1984).

Parks, Recreation and Tourism Management

B. J. Mihalik (Asst Prof) presented a paper, "Developing Maintenance Standards," at the North and South Carolina Recreation and Park Society Conference in Charlotte, N.C., Nov. 13-15.

Prof. Mihalik had the article "Community Education and Recreation Interface: A View of Community Education from the Leisure Service Perspective" accepted for publication in the Community Education Journal, (January 1984).

Physics and Astronomy

P. B. Burt (Prof and Hd) presented

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a talk, "Perturbation Theory," at the 50th Conference on Statistical Physics at Rutgers University, Dec. 14-15.

Prof. Burt gave an invited colloquium, "Scattering as a Persistent Interaction," at the University of Georgia in Athens, Jan. 12.

Plant Pathology and Physiology

S. A. Lewis (Prof), O. J. Dickerson (Prof and Hd) and technicians in the department assisted W. H. Thames (Ret. Prof Emer, Texas A&M Univ) in presenting the "Nematode Identification Short Course" here Jan. 3-14. The course was cosponsored by Special Instructional Programs of the College of Agricultural Sciences.

L. E. Hollar (Grad Stu, Hort) W. H. Ridings (Assoc Prof) and L. W. Baxter Jr. (Prof) published "The Effects of Varying Concentrations of Sodium Hypochlorite on Grafting Camellia Japonica 'Debutante' in Carolina Camellias, Vol. XXXIV (Fall, 1983).

Political Science

C. W. Dunn (Prof and Hd) had two articles published: "Theology and American Public Policy" in Humanities in Society, 6 (Winter 1983) 53-70; and "The Theological Dimensions of Presidential Leadership" in Presidential Studies Quarterly, 14 (Winter 1984) 61-72.

M. A. Morris (Assoc Prof) has written "Structure and Prospects of Latin American Navies" for Ocean

Yearbook 4 (Univ of Chicago Press, 1983) 347-365.

Prof. Morris reviewed U.S.-Panama Relations, 1908-1978: A Study in Linkage Politics by D. N. Farnsworth and J. W. McKenney (Boulder, Colo., Westview Press, 1983) for Perspective.

Psychology

K. M. Zabucky (Vstg Asst Prof) and R. Dolinsky (Univ of Toledo) published "Effects of Environmental Context Changes on Memory" in the Bulletin of the Psychonomic Society, 1983, 21 (6), 423-426.

Sociology

C. M. Sieverdes (Assoc Prof) co-authored an article, "Sexual Victim in a Coeducational Juvenile Correctional Institution," published in The Prison Journal, Vol. 63 (Spring-Summer, 1983) 80-90.

Prof. Sieverdes participated in a conference, "Food: Agriculture in the Liberal Arts," at the University of Florida, Jan. 3-7. The conference was funded by the W. K. Kellogg Foundation.

Thurmond Institute

H. W. Fleming (Dir) gave a talk on "Dollars Planned = Dollars Saved: Planning for Human Services Delivery in a Time of Profound Change -- and Profound Opportunities" at the annual meeting of the Community Planning Council of Greenville County Jan. 30.

MAR 2 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

March 2-9

WORKSHOPS, SEMINARS AND LECTURES

- 3 Workshop: "Computer Networks." Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.
- 5 Luncheon address: "A Woman in a Man's World Since the 1920s" by Margaret Bryant, a retired linguistic scholar, author and professor of English at New York City University. Sponsored by College of Liberal Arts, and the S.C. Committee for the Humanities. Call 656-3264 for reservations.
- 7 Women's Fiction Festival: readings by guest authors Emily Ellison from Atlanta and Doris Betts, a professor of English at the University of North Carolina. Sponsored by College of Liberal Arts, the Georgia-South Carolina College English Association and the S.C. Committee for the Humanities. Call 656-3238 for more information.
- 7 Lecture: "Writing the History of Non-elite Women" by Alice Matthews, a professor of history at Western Carolina University. Sponsored by the history department, Hardin Hall Auditorium, 3:30 p.m. The film, "Coal-mining Women," will also be shown. Reception follows in Room 105, Hardin Hall Lounge. Call 656-3153 for more information.
- 7 Lecture: "The Effects of Competitive Athletics on the Perception of Women in Society" by basketball coach Annie Tribble. Sponsored by sociology department, 301 Kinard, 4 p.m., reception following in 305 Martin Hall. Call 656-3238 for more information.
- 7-9 Conference: "S.C. Highway Conference." Sponsored by Continuing Engineering Education, Clemson House. Call 656-3308 for more information.
- 8 Women Writer's Forum, moderated by Zohreh Sullivan, a critic and an associate professor of English at the University of Illinois at Urbana. Sponsored by College of Liberal Arts, and the S.C. Committee for the Humanities, 108 Strode, 3:30 p.m. Call 656-3238 for more information.

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CU EVENTS (Cont.)

- 8 Seminar: Distinguished Chemical Industry Business Seminar with Robert P. Carson, senior economist for Eastman Chemical Products Inc. Sponsored by chemistry and geology and chemical engineering departments, Earle Hall Auditorium, time to be announced. Call 656-3472 for more information.
- 8 Seminar: "What's New in Taxes." Sponsored by Extension Service, First Federal, Hwy 123, Easley, 7:30 p.m., \$1 registration. Call 868-2810 or 859-2422 for more information.
- 8 Lecture: "Exciting Frontiers: The South and the Third World" by Atlanta Mayor Andrew Young. Sponsored by Honors Program, Tillman Hall Auditorium, 8 p.m. Call 656-4720 for more information.
- 8 "Helikian Anorthosites and Archeon Granulites of the Nain Province Labrador," by William Ranson, a professor of geology, Furman University. Sponsored by geology department, 235 Brackett Hall, 5 p.m. Open to public. Free. Call 656-3438 for more information.
- 8 Short course: Beginning Golf, 6-7 p.m., \$10. Sign up at the Union Information Desk. Call 656-2461 for more information.
- 9 Lecture: "New Men and New Women in a New World" by Betty Friedan, founder of the National Organization of Women. Sponsored by College of Liberal Arts, the S.C. Committee for the Humanities and the Thurmond Institute, Tillman Hall Auditorium, 8 p.m. Reception following in the Penthouse of the Clemson House. Call 656-3238 for more information.
- 9 Panel: "Living Women Writers" moderated by Mary Ferguson, a professor of English at the University of Georgia. Sponsored by College of Liberal Arts, the Georgia-South Carolina College English Association and the S.C. Committee for the Humanities, Daniel Hall Auditorium, 2 p.m. Call 656-3238 for more information.

MUSIC, DRAMA AND EXHIBITS

- 5 Leslie Burrs, jazz flutist. Sponsored by University Union, Tillman Hall Auditorium, 8 p.m., \$1.50 with University I.D., \$2.50 for others. Call 656-2461 for more information.
- 5-9 Union Art Gallery: Pottery by Patrick Mays. Sponsored by University Union, Loggia. Call 656-2461 for more information.
- 6 German play presented by students. Sponsored by languages department, Daniel Hall Auditorium, 8-10 p.m. Open to public. Free. Call 656-3393 for more information.
- 7 Clemson University Symphonic Band Winter Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

CU EVENTS (Cont.)

- 8 "Hot Shandy," Irish ballads and bluegrass. Sponsored by University Union, the Gutter, 8-11 p.m., \$2. Call 656-2461 for more information.
- 8-9 "The Parrots Band." Sponsored by University Union, Edgar's, 9 p.m., \$1. Call 656-2461 for more information.

FILMS

- 4 "House Calls." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 6 "The Future That Was," part VIII of Robert Hughes' BBC series. Sponsored by history and visual studies department and College of Architecture, Lee Hall, Lyles Auditorium, 4-5 and 8-9 p.m. Open to public. Free. Call 656-3081 for more information.
- 8-9 "War Games." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m. \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 2 Baseball: Old Dominion, here, 3 p.m.
- 3 Basketball: Campbell, here, men, 2 p.m.
- 4 Tennis: Florida, here, women, 1 p.m.
- 5 Baseball: Citadel, here, 3 p.m.
- 6 Baseball: Citadel, here, 3 p.m.
- 7 Baseball: UNC-Wilmington, here, 3 p.m.
- 7 Tennis: Old Dominion, here, 2:30 p.m.
- 8 Baseball: UNC-Wilmington, here, 3 p.m.
- 9 Baseball: Maryland, here, 3 p.m.
- 9-11 Tennis: Clemson Invitational, women, 2:30 p.m. on 9th; 1 p.m. on 10-11.
- 9-11 Tennis: Clemson Spring Classic, men, 2:30 p.m. on 9th; 1 p.m. on 10-11.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) and (2) for arbitrary values of the parameters α and β .

2. In the second part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

3. In the third part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

4. In the fourth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

5. In the fifth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

6. In the sixth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

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12. In the twelfth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

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15. In the fifteenth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

16. In the sixteenth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

17. In the seventeenth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

18. In the eighteenth part, we consider the case of the existence of solutions for the system of equations (1) and (2) for arbitrary values of the parameters α and β .

CU EVENTS (Cont.)

OTHER EVENTS

- 3 Horseback Riding. Sponsored by University Union, 9:30 a.m.-2:30 p.m., \$12.50. Sign up at Union Information Desk, or call 656-2461 for more information.
- 5 Carolina Journal: Ibrahim M. Ibrahim, soccer coach, talks about the growth of soccer in the U.S. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 8 "The Reading Band" rehearsal. Sponsored by music department, Holtzendorf YMCA, band room. Open to anyone who plays a musical instrument. Call 656-3380 for more information.



MAR 7 1984

PRESIDENT'S COUNCIL RECEIVES REORGANIZATION PROPOSAL

The President's Council Feb. 10 received proposals for reorganizing its commission structure and heard a request from President Bill Atchley for ways to increase attendance at campus programs.

Jerry Reel, vice provost for undergraduate studies, presented reorganization proposals drawn up by a special committee he chaired.

A major problem the committee found during its work, said Reel, is the large number of University standing committees operating outside the Council's structure and communications network.

The result, he said, is that decisions are sometimes made without benefit of adequate communication among the various University groups represented on the Council.

The committee, Reel said, "opted to tinker with the existing structure rather than begin a completely new organization" for the Council.

The tinkering, he said, resulted in proposals that some committees be shifted among existing commissions, that some committees be grouped to make a new commission, and that some committees be eliminated entirely, specifically, he said, "those meeting once a year just to hear a report."

The committee recommends keeping the present six commissions (undergraduate studies, graduate studies, faculty affairs, student affairs, public programs, and public service) and adding two new commissions (physical facilities and classified staff affairs).

The number of voting Council members, as a result of the two new commissions, would increase by two, from 27 to 29.

(President Atchley has already approved setting up the Commission on Classified Staff Affairs.)

Each commission, said Reel, would have the authority to modify and eliminate committees as needed. "Essentially, if a committee is surviving, it could remain, but that will be the commission's decision."

President Atchley told Council members that, although it is not shown on the proposed reorganization chart, the Athletic Council would be required to report to him annually.

The committee's report was tabled until the next Council meeting to give Council members time to study the recommendations.

President seeks ideas on increasing attendance at academic events

In other business, President Atchley talked about the recurring problem of low attendance at campus-wide programs of scholarly and academic interest.

"We have had some outstanding people on our campus lately," he said, "and, frankly, we have not done ourselves justice as a university in attending them."

As an example, he cited the recent visit of Dominica Prime Minister Eugenia Charles.

Continued on Page 2.

Continued from Page 1.

"This was her first visit to the United States since the Grenada invasion," he said, "and although we had a crowd, we didn't have the kind of participation we should have had.

"We can keep on making excuses [for low attendance], but it's time to do more than just talk about the problem. We've got to become actively involved in a solution to get people out, and I'd be happy to hear your suggestions."

College of Commerce and Industry Dean Ryan Amacher raised the possibility of assigning points to students for attending lectures, "particularly," he said, "where there's academic merit to an event."

Vice Provost Reel said he understands the English department has a one-hour course designed especially to award credit for attending academic events. Perhaps, he said, there might be some merit to that idea on a wider scale.

Agricultural Sciences Dean Luther Anderson said maybe each department could designate at least one person to attend lectures to provide a reliable core of participants.

Following a brief discussion on the possibility of requiring students to attend events of academic merit, Faculty Senate President Holley Ulbrich said a problem with requiring students to attend programs is that of checking attendance. "There seems to be a way of writing a report without going to the event," she said.

Atchley said perhaps lack of adequate communication may be one cause of the low attendance.

"Maybe we're not doing a good enough job communicating these things," he said.

"At any rate," he said, "I do hope you will talk more seriously about the problem with whatever group you represent."

While on the subject of communication, Atchley re-introduced the idea of having an electronic sign on campus to "let people know what's going on here."

He said although the Public Service Commission reacted negatively to a specific electronic sign proposal some months back, he thinks the general idea may have some merit.

"I would think we could design a sign that would fit into the natural environment," he said. "Anyway, I'm asking the [University Planning Board] to look into this."

Atchley re-emphasized the Board of Trustees' active opposition to the Commission on Higher Education having "anything to say about how fees are raised at this or any other institution."

(At its January meeting, the Board adopted a resolution opposing the concept of CHE setting fees for state colleges and universities.)

"I just want you to know," he said, "that we're on top of it and are fighting it as much as we can."

Graduate Studies Dean Arnold Schwartz said the Commission on Graduate Studies is studying the problems relating to the language ability of some graduate assistants in the classroom.

The commission, he said, will present at the next Council meeting a formal proposal regarding discontinuing mid-term grades for graduate students.

Reel reported on several ways the Undergraduate Studies Office is working with the Admissions Office to recruit good students.

"Recruiting through Calhoun College," he said, "is producing solid results." Through it high school sophomores have the opportunity to live on campus, he said, adding that recruiting students early seems to be paying off.

He also commended the Student Alumni Council for its increasing role in academic recruiting.

**'MOSAICS' PROVIDES SECOND CHANCE TO HEAR
EL SALVADOR ROUNDTABLE DISCUSSION**

Perhaps you missed it the first time around, so here's your second chance to hear last month's El Salvador roundtable, in which five nationally recognized experts on Latin American issues discussed U.S. involvement in El Salvador.

An edited version of the Feb. 13 roundtable, moderated by history Prof. Joe Arben, will be aired during the "Special Corner" segment of "Mosaics" on the S.C. Educational Radio Network March 10 at 11:30 a.m.

Bill Pearson, University Relations educational radio producer, says you can tune in to the program in this area on WEPR-FM -- 90.1 on the dial. The discussion, he says, will be broadcast on all of the six educational radio network stations in the state.

Appearing on the panel here were



The Clemson University Newsletter is published for James Whitner, a custodial worker in the P&A Building, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Alejandro Orfila, fifth secretary general of the Organization of American States; Enrique Baloyra, chairman of the Latin American studies curriculum at the University of North Carolina at Chapel Hill; Ralph Woodward, a professor of history at Tulane University; Maryland Rep. Michael D. Barnes; and Ralph E. Becker, former U.S. Ambassador to Honduras.

**COMPUTER CENTER WANTS TO HELP YOU
ESTABLISH GOOD RAPPORT WITH COMPUTERS**

Wouldn't it be nice to have a place where you could go to get good guidance in purchasing and setting up the kind of computer system that will fit your own or your department's requirements?

Good news. There is such a place -- the Computer Center, which is now, through its Academic Computing Support (ACS) unit, providing campus-wide assistance to individuals and groups who need help in buying and using microcomputers.

And, says systems programmer Chuck Heck, ACS can help you establish a good rapport with computers in several ways.

Because the cost of personal computers is dropping, says Heck, many individuals and departments are buying them, but they are often buying without fully understanding what is available or what they really need.

"Our goal is to help these people define their requirements, inform them of what is available, and then help them make an intelligent decision about what they need," says Heck.

"We don't want people to end up with a system that won't work or won't do what they thought it would. Also, we know the vendors, and they know us, so we are kept up to date on recent changes, releases, and improvements in both the software and hardware areas."

Continued on Page 4.

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Heck says the center can help with the paper work involved in purchasing a computer and can set up and check out a system at the time it is received.

"We will be the one place on campus where people can come and get accurate, up-to-date information about microcomputers which they intend to purchase as well as microcomputers they may already be using," he says.

The Computer Center will also be offering training and orientation on the microcomputer lab to be located in the Cooper Library, a lab equipped with 50 Digital Equipment Corp. Rainbow 100 personal computers.

And, beginning in May, 25 of these micros can be reserved for special classes and workshops, says Heck.

To reserve your place in the lab, or to find out more about which personal computer will best fit your needs, call Academic Computing Support at 656-3466.

ALUMNUS NAMED HONORARY MEMBER OF S.C. CROP IMPROVEMENT SOCIETY

A Clemson alumnus and retired faculty member who spent his career working to improve South Carolina's row crops has been named an honorary member of the South Carolina Crop Improvement Society.

Elias Ben Eskew, who retired last

year from a teaching and research position in the agronomy department, was made an honorary member of the society for his work on crop varieties, his evaluation of crop cultivars and his work with seedsmen and plant breeders in several states.

A native of Anderson County, Eskew led many projects on agronomic crops and was responsible for yearly publications about crops in the state.

Eskew received his bachelor's degree here and his master's degree from Ohio State University. He was made an honorary member of the S.C. Seedsmen's Association in 1974.

CLEMSON WHO?

Prof. Andreas von Recum, head of interdisciplinary studies, sent us the following note the other day:

"If someone from somewhere would send a letter to Harvard University, USA, I would almost believe that that letter could possibly reach its destination.

"Enclosed letter was sent to me from Wroclawlu, Poland, and the only address it contained was Clemson University, USA. And that letter arrived (approximately two months later).

"Does that not tell you something about Clemson University!"

MAR 7 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

March 9-16

WORKSHOPS, SEMINARS AND LECTURES:

- 12 Clemson Architectural Lecture Series: "Lewis Mumford: Toward Human Architecture," a film. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 13 Seminar: "Interpreting Financial Statements II." Sponsored by College of Commerce and Industry, 102 Sarrine Hall, 7-9:30 p.m. Call 656-3227 for more information.
- 13-15 Workshop: "Computer Networks." Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.
- 14 Lecture: "Turbulent Reattaching Jets" by James A. Liburdy, an associate professor of mechanical engineering. Sponsored by mechanical engineering department, 300 Riggs Hall, 3:30-4:30 p.m. Call 656-3470 for more information.

CONCERTS

- 15 Heart and Eddie Money. Sponsored by University Union, Littlejohn Coliseum, 8 p.m.; tickets, \$8.50, \$10.50 and \$12.50, on sale at Union Box Office. Call 656-2461 for more information.
- 15 Clemson University Jazz Ensemble Winter Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 8-10 "War Games." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 11 "Alice Doesn't Live Here Anymore." Sponsored by University Union, Y-Theatre, 8 p.m., free with University I.D. Call 656-2461 for more information.

CONTRACT

THIS CONTRACT is made this 1st day of January, 1900, between the undersigned, who are the owners of the property hereinafter described, and the undersigned, who are the owners of the property hereinafter described, for the purpose of conveying to the latter the property hereinafter described, together with all the rights and appurtenances thereto in anywise by law in anywise connected with the same.

The property hereinafter described is situated in the County of [] State of [] and is more particularly described as follows: []

TO HAVE AND TO HOLD unto the said [] and his heirs and assigns forever, together with all the rights and appurtenances thereto in anywise by law in anywise connected with the same.

IN WITNESS WHEREOF, the said [] has hereunto set his hand and seal of office, and the said [] has hereunto set his hand and seal, at the City of [] State of [] this 1st day of January, 1900.

Attest: []

Witness my hand and seal of office, at the City of [] State of [] this 1st day of January, 1900.

Attest: []

Witness my hand and seal of office, at the City of [] State of [] this 1st day of January, 1900.

Attest: []

Witness my hand and seal of office, at the City of [] State of [] this 1st day of January, 1900.

Attest: []

Witness my hand and seal of office, at the City of [] State of [] this 1st day of January, 1900.

CU EVENTS (Cont.)

- 12 "Sea Wolf." Sponsored by University Union, Y-Theatre, 8 p.m., \$1. Call 656-2461 for more information.
- 14 "Where the Boys Are." Sponsored by English department's Five Directions' Cinema, Y-Theatre, 7:30 p.m., \$2. Call 656-3151 for more information.

SPORTS

- 9 Baseball: Maryland, here, 3 p.m.
- 9-11 Tennis: Clemson Invitational, women.
- 9-11 Tennis: Clemson Spring Classic, men.
- 10 Baseball: Maryland, here, 2 p.m.
- 11 Baseball: Georgia, here, 2 p.m.
- 12-14 Baseball: Marshall, here, 3 p.m.
- 13 Tennis: Virginia, here, men, 2:30 p.m.
- 15-16 Baseball: Virginia, here, 3 p.m.

OTHERS

- 12 Carolina Journal: Ernest Dover, an instructor of political science, discusses Black politics in 1984. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 13 Laser Print Sale. Sponsored by University Union, Union Art Gallery. Call 656-2461 for more information.

March 14, 1984

Vol 23 No 28

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



MAR 14 1984

NURSING CENTER'S HEALTH SCREENINGS PROVIDE COMMUNITY SERVICE

Faculty and graduate students in the College of Nursing will be listening to lots of tiny heartbeats and finding bunnies in many a little ear in the next few months. And in the process they will be helping a lot of children and parents in the Clemson community.

In February the Nursing Center began offering health screenings to children, ages one through five, who are attending the Clemson Child Development Center. And, says Sara Barger, director of the Nursing Center, the screenings are also offered to children of faculty and staff members here, as well as to other members of the community.

The screening includes, in addition to height and weight checks, hearing and vision tests, blood pressure and urine tests, an anemia test, a tuberculin test, and an immunizations assessment.

Should a child need any immunizations, says Barger, these can be given at the Center at the time of the screening. And when a child is found to have a health condition requiring medical attention, she says, "that child is referred to the family's usual source of health care."

Administering health screenings to children in the community is one way in which the Nursing Center fulfills its threefold purpose. The Center was

Continued on Page 2.



MY TURN -- Is there really a bunny rabbit in there? Cory McMullen gets his turn to find out during a health screening given by Sara Barger, director of the Nursing Center. Cory, son of Teresa McMullen of Clemson, attends the Clemson Child Development Center and is one of many community residents who have been served by the College of Nursing.



Continued from Page 1.

created, says Barger, to provide nursing students clinical experience in ambulatory care, to provide faculty members a research setting in which to maintain and improve their practice, and to provide a service to the community.

Nancy Pekarul, teacher at the Clemson Child Development Center, says the Nursing Center's health screenings help the CDC in two major ways.

"It helps the parents out since they can sign a form giving us permission to bring their children here to get them examined," says Pekarul, "and it is a help to us in keeping their immunization records up-to-date."

Barger emphasizes, however, that parents are encouraged to accompany their children during the screening process.

Services offered to adults in the community include screening for diabetes and high blood pressure, vision and hearing tests, a health assessment and, if needed, immunizations.

Right now, all services at the Center are free, with the S.C. Department of Health and Environmental Control providing the immunizations and the TB skin test. However, the Center will set up a nominal fee system within the next few months, Barger says.

If you have a child who will be entering school this fall and who needs the usual pre-school exam and immunizations, or if you are interested in any of the other services provided by the Center, you may want to call and set up an appointment.

The Center is open Monday through Friday, 8 a.m.-4:30 p.m. But, if your work schedule does not permit you to go to the Center during the day, you may set up an appointment on a Tuesday evening by calling 656-3076.



Bishop

BISHOP APPOINTED ASSOCIATE DEAN OF ENGINEERING FOR INSTRUCTION

Mechanical engineering Prof. Eugene H. Bishop has been appointed associate dean of engineering for instruction. The position involves administration of the undergraduate and graduate instructional programs in the College of Engineering.

In making the announcement, engineering Dean Charles Jennett said Bishop has "done an excellent job" as acting associate dean since August 1982.

Bishop came to Clemson in 1974 from Montana State University, where he was head of the aerospace and mechanical engineering department. Before that he was an associate professor in Mississippi State University's mechanical engineering department, where he earned his bachelor's degree. He received his doctorate from the University of Texas.

As mechanical engineering head here from 1974 to 1981, Bishop administered the bachelor's, master's, and doctoral degree programs. During that time undergraduate enrollment grew from 187 to 740 students, and the department received a five-year National Science Foundation grant to support research funding in thermal-fluid sciences.

A native of Hattiesburg, Miss., Bishop, 51, served six years in the U.S. Navy's Civil Engineer Corp., where he was overseer of construction, maintenance and repair of public works, utili-

ties and transportation facilities at various Naval installations.

Bishop's appointment as associate dean will become effective July 1, 1984.

CLEMSON PLAYERS 'BUFFALO' PICKED AS ONE OF SEVEN BEST IN THE NATION

The Clemson Players' production of "American Buffalo" has been selected as one of the seven best college theatre productions in the nation by the American College Theatre Festival.

As a result of the honor, the Players will give two performances Sunday, April 15, at the Kennedy Center for the Performing Arts in Washington.

"This award is quite an honor for Clemson since it gives us national recognition," director Ray Sawyer said. "It is all the more remarkable since Clemson only offers drama as a minor, and we had to go up against some schools with large drama departments."

About 450 theatre groups competed

nationwide for the opportunity to go to Washington.

After a week of performances here last November, Sawyer and the cast entered the state festival in Conway and then went on to regional competition. The Players were one of only six drama groups advanced to the regionals from among 50 that participated from the 10-state region.

From the regional competition at the University of Alabama, Clemson's was the only production selected to perform in Washington.

Set in a junk shop in Chicago, where three men are planning to steal a valuable coin collection, the play by David Mamet probes the themes of loyalty, responsibility and the relationship of money and business to greed and violence.

The cast features Robin Roberts of Clemson as Donnie Dubrow, Michael Tierney of Shrewsbury, N.J., as Bobby, and Graham Frye of Pendleton as Teach.

Karl Nolte of Longwood, Fla., is set designer, George Suhayda of Matawan, N.J., is lighting designer, and Clifton Egan is technical director.

The Washington performances, which will be free, are set for 2 and 7:30 p.m.

The Players will give a free performance Thursday, April 12, here in Daniel Hall Auditorium.

STUDENT LIFE WANTS A FEW GOOD STUDENTS

The Office of Student Life is looking for a few good students -- 20 to be exact -- who are poised, reliable, honest, and who exercise good judgment in dealing with others.

Students who show these qualities of

Continued on Page 4.



The Clemson University Newsletter is published for Cindy Gosey, a clerical specialist in the communications center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Continued from Page 3.

leadership are needed for the Clemson Ambassador program, says Teresa Paschal Evans, assistant dean of Student Life.

"We are looking for high calibre individuals who make a good first impression and can quickly establish rapport with students and their parents," says Evans.

The Ambassadors, who lead student and parent groups during summer orientation, are undergraduates who have completed at least two semesters here and are in good academic standing.

"It is anticipated that Ambassadors will be in summer school," says Evans, "although that isn't a requirement."

For their work during orientation sessions, Ambassadors receive a set stipend for each two-day session, plus overnight lodging.

If you know a student who would represent Clemson well, Evans asks that you encourage that student either to apply at the Office of Student Life or to call her at 656-2153.

Applications for the 1984 summer orientation sessions will be accepted until April 2.



RATIONAL APPROACH -- Linvil Rich, Alumni Professor of Environmental Engineering, has received the National Wildlife Federation's Exceptional Service Award. The award was given for his rational approach to the analysis and design of environmental systems, his promotion of cost-effective techniques of environmental protection and his innovative techniques in teaching. ESE Prof. Ben Dysart, president of the NWF, presented the award in February at Myrtle Beach.

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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

March 16-31

WORKSHOPS, SEMINARS, CONFERENCES

- 28-31 * * * * *
* FOURTH ANNUAL CONFERENCE ON SPORT AND SOCIETY *
*
* "The Cultural Dimensions of Play, Games, and Sport" *
*
* Keynote addresses by Alan Page, Bernie De Koven, *
* and Dick Vermeil are free and open to the public. *
* (See individual entries on this calendar.) Those *
* persons wishing to participate in the full confer- *
* ence should register by March 26. For more infor- *
* mation call Joe Arbena, conference director, at *
* 656-3153. *
* * * * *
- 20 "Laboratory Safety" with displays on safety equipment and safety clothing. Sponsored by College of Agricultural Sciences Research Committee and American Scientific Products, P&A Building Auditorium, 9 a.m.-3 p.m. Call 656-3102 for more information.
- 22 "Cash Flow." Sponsored by Small Business Development Center, 01 Sirrine Hall Auditorium, 7-9:30 p.m. Call 656-3227 for more information.
- 26 Workshop: "Discovering Natural Foods I." Sponsored by University Union, 7-8:30 p.m., \$1. Sign up at Union Information Desk, or call 656-2461 for more information.
- 27 Workshop: "Car Maintenance." Sponsored by University Union, 6-8 p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 27-29 Workshop: "Design of Industrial Electrical Power Systems." Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.

CU EVENTS (Cont.)

- 28 Conference on Sport and Society keynote address: "The Student Athlete" by Alan Page, former NFL defensive lineman for the Chicago Bears and Minnesota Vikings. Sponsored by College of Liberal Arts, athletic department, The Association for the Anthropological Study of Play and The North American Society for the Sociology of Sport, 7:30 p.m., Tillman Hall Auditorium. Reception follows at the Alumni Center. Free. Open to public. Call 656-3153 for more information.
- 28 Workshop: "Flower Arranging." Sponsored by University Union, 7:30-9: p.m. Sign up at Union Information Desk, or call 656-2461 for more information.
- 28 Workshop: "Sea (Lake) Kayaking." Sponsored by University Union. Sign up at Union Information Desk, or call 656-2461 for more information.
- 28 Seminar: "Voluntary Learning: Future Educational Uses of Computers" by Bernie De Koven, designer of video games. Sponsored by College of Education and Sports and Society Conference, 302 Nursing Building, 3:30 p.m. Free. Open to public. Call 656-3485 for more information.
- 29 Conference on Sport and Society keynote address: "Video Games: At Play in the Virtual World" by Bernie De Koven, author and games designer. Sponsored by College of Liberal Arts, athletic department, The Association for the Anthropological Study of Play and The North American Society for the Sociology of Sport, 7:30 p.m., Tillman Hall Auditorium. Reception follows at the Alumni Center. Free. Open to public. Call 656-3153 for more information.
- 29 Workshop: "Infection and Nutrition in Intensive Care: The Nurse's Role." Sponsored by Nursing Continuing Education, Room 310, College of Nursing Building. Preregistration required. Call 656-3078 for more information.
- 30 Conference on Sport and Society keynote address: "Sport: It's More Than a Game" by Dick Vermeil, CBS sports commentator. Sponsored by College of Liberal Arts, athletic department, The Association for the Anthropological Study of Play and The North American Society for the Sociology of Sport, 7:30 p.m., Tillman Hall Auditorium. Reception follows at the Alumni Center. Free. Open to public. Call 656-3153 for more information.
- 30- April 1 Seminar: "Clemson Hospitality and Tourism Invitational" with keynote speaker Peter Spurney, president 1984 Louisiana World Exposition. Sponsored by department of parks, recreation and tourism management. Call 656-2060 for more information.

CU EVENTS (Cont.)

EXHIBITS, MUSIC, FILMS

- 26- April 13 Exhibit: Betty Hahn Photographs and John Acorn Sculpture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 26 Clemson University Concert Series. Liona Boyd, classical guitarist. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Students present activity card, others present season tickets (\$20 for adults, \$10 for students) or tickets may be purchased at the door (\$6 adults, \$2 students). Call 656-3043 for more information.
- 26 Classic Movie: "Dr. Doolittle." Sponsored by University Union, Y-Theatre, 8 p.m., \$1. Call 656-2461 for more information.
- 26-30 Exhibit: American Nuclear Society Exhibit. Sponsored by University Union, Union Art Gallery. Call 656-2461 for more information.
- 27 Chamber Music Series. Sponsored by music department, Daniel Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.
- 28 Five Directions Cinema: "The Loved One." Sponsored by English department, Y-Theatre, 7:30 p.m., \$2. Call 656-3151 for more information.
- 29-31 Film: "Eating Rauol." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

LECTURES

- 26 Clemson Architectural Foundation Lecture Series: E. Fay Jones, FAIA, Fayetteville, Ark., reviews recent projects. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 8 p.m. Call 656-3081 for more information.
- 26 "Nutrition for the Athlete" by Ann Grandjean, a consultant for the U.S. Olympic Committee Sports Medicine Division and the Chicago White Sox. Sponsored by food science department, 104 Newman Hall, 7:30 p.m. Call 656-3397 for more information.
- 27 Ben Payton, president, Tuskegee Institute lectures. Sponsored by Thurmond Institute, Tillman Hall Auditorium, 3:30 p.m. Call 656-4700 for more information.

CU EVENTS (Cont.)

- 27 Ike Pappas, national news correspondent, talks on "Journalists and the 1984 Elections" and shares his collection of news bloopers titled "Tapes of Wrath." Sponsored by Speakers Bureau, Tillman Hall Auditorium, 7 p.m. Open to public. Free. Call 656-2195 for more information.

SPORTS

- 16 Baseball: Virginia, here, 3 p.m.
- 17-18 Baseball: Virginia Tech, here, 2 p.m.
- 19 Baseball: Virginia Tech, here, 3 p.m.
- 24 Tennis: Wake Forest, here, 1 p.m.
- 27 Baseball: Georgia Tech, here, 3 p.m.
- 29 Baseball: Florida State, here, 3 p.m.
- 30 Baseball: Florida State, here, 3 p.m.
- 31 Baseball: N.C. State, here, 2 p.m.

OTHER EVENTS

- 19-23 Spring break.
- 26 Classes resume.
- 26 Carolina Journal: Herbert Brantley, head of parks, recreation, and tourism management department, and Benjamin C. Dysart, a professor of environmental systems engineering, discuss environmental issues of 1984. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 28 Carolina Journal: Carol Ward, an assistant professor of English, previews the Academy Awards. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 29 Physics Day. High schools and colleges visit the physics department for lectures and exhibits. Sponsored by physics and astronomy department, Kinard Lab, 11 a.m.-4:30 p.m. Free. Call 656-3416 for more information.

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NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



SPORT AND SOCIETY CONFERENCE EXPANDS TO COVER MULTI-DISCIPLINARY TOPICS

Sport -- it's more than a game, says CBS sports commentator Dick Vermeil, and the agenda of the fourth annual Conference on Sport and Society, which starts today, is designed to prove him right.

Whether your interest is literature, drama, sociology, education, history, or religion, you'll find your niche in at least one of the sessions during the four-day conference focusing on "The Cultural Dimensions of Play, Games and Sport."

This year, says conference director and history Prof. Joe Arbena, the number of sessions has expanded from five to 21, and the topics will be broader based than in past years.

"The topics cover virtually the whole range of the social sciences, some of the humanities and some of physical education," says Arbena.

"With subjects from such diverse areas as psychology, recreation, literature, political science, and geography,

Continued on Page 2.

GATEWAYS TO CAPE COD --

Whether your interest is in Indians, architecture, or the seashore at Cape Cod, you may want to check out a new slide collection in the history department. Edison P. Lohr, a former National Parks Service officer, has donated 300 slides ranging from the housing of Pilgrims and Indians to Cape Cod architectural styles. At right is the frame of a thatched tepee,



a 1600s Pilgrim abode. The Cape Cod house, left, offers a whale of a welcome with its lower jaw bones from a finback whale. The 35mm color slides are divided into Indian life and artifacts; the Pilgrims' voyage and settlement; and the architectural development of the Cape Cod house. Call history Prof. Alan Schaffer at 656-3153 for information on the slides.

Continued from Page 1.

the conference should lend itself well to cross-disciplinary dialogue."

Alan Page, former NFL defensive line-man for the Chicago Bears and Minnesota Vikings and now a practicing attorney in Minneapolis, Minn., will begin the conference tonight at 7:30 with a keynote address, "The Student Athlete," in Tillman Hall Auditorium.

Capping events tomorrow (the 29th) will be a keynote address, "Video Games: At Play in the Virtual World," by games designer Bernie De Koven. De Koven's focus as a writer, designer and teacher centers on the many ways of providing for safe, challenging and growth-producing experiences through play. His book, "The Well-Played Game --A Player's Philosophy," was released in 1978. He will speak at 7:30 p.m. in Tillman.

De Koven will also present a seminar, "Volunteer Learning: Future Educational Uses of Computers," today (the 28th) at 3:30 p.m. in Room 302 of the Nursing Building.

Sports commentator Vermeil will highlight the agenda on Friday (the 30th) with a keynote lecture on "Sport: It's More Than a Game." Vermeil is a former head football coach for UCLA and for the Philadelphia Eagles. He'll speak at 7:30 p.m. in Tillman.

A wine and cheese party at the Clemson House will follow De Koven's speech, while receptions at the Alumni Center will be held after Page's and Vermeil's addresses.

The Conference on Sport and Society is sponsored by the College of Liberal Arts, the athletic department, The Association for the Anthropological Study of Play, and The North American Society for the Sociology of Sport.

There's a \$25 registration fee for the full conference, but the three keynote speeches and De Koven's special

seminar this afternoon will be free and open to the public.

For more information, call Arbena at 656-3153.

BELL LABS DIRECTOR RONALD GRAHAM
TO VISIT THE CAMPUS NEXT WEEK

Ronald L. Graham, director of Bell Laboratories' Mathematics and Statistics Research Center, will be this year's visiting scholar for the R. C. Edwards Science and Technology Lecture Series next week, April 2-4.

One of the world's leading and most respected mathematicians, Graham will present several lectures and participate in related math and computer seminars during his stay on campus.

Graham is most widely recognized for his work in pure mathematics, mainly in the field of Ramsey theory. Simply stated, the theory says complete disorder is impossible. In 1972, Graham, along with Bruce Rothschild and Klaus Leeb, received the Polya Prize from the Society for Applied Mathematics for his work in Ramsey theory.

Graham is recognized by the Guinness Book of World Records for identifying the largest number ever used in a mathematical proof.

In addition, he is a consultant to several science magazines and encyclopedias. Among them are Science Magazine, The Smithsonian, Time, Encyclopedia Britannica, and Discover.

He is a National Science Foundation Fellow and a Woodrow Wilson Fellow, and in 1981 he was chosen as Scientist of the Year by the World Book Encyclopedia.

Graham will speak on "The Shortest Network Problem" April 2 at 8 p.m. in Daniel Hall Auditorium and "Foresight in

Pure Math Applications" at 11:15 a.m. April 4 in M-102 Martin Hall.

The R. C. Edwards Lectures are sponsored by the Honors Program. For more information call 656-4720.

**SMALL BUSINESS CENTER
HAS ROOM TO CELEBRATE**

They're celebrating space in Room 425 of Sirrine Hall March 30. Not outer space, but the inner kind -- office space.

The Small Business Development Center is saying good-bye to its former cramped headquarters in Room 101, and the staff is inviting you to celebrate the move at a drop-in from 2-4 p.m.

Director Pat Cunningham says the new offices have brought the Center's staff together in a central location, gives the Center a stronger identity, and will improve efficiency.

"Since the Center was created in 1979, we've been spread out in all direc-

tions throughout Sirrine," he says, "so we're excited to be all in one place now."

Joining in the celebration will be 3rd District U.S. Rep. Butler Derrick, who will give a luncheon address in the Gold Room of the Clemson House at noon, and Bill Littlejohn, SBDC state director.

In addition to the center here, other SBDC centers are housed at Winthrop College, at the University of South Carolina, and the center for minority groups is located at South Carolina State.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

Accountancy

L. E. Bryan (Asst Prof) reviewed Accounting for Nonprofit Organizations by Henke in The Accounting Review (January 1984).

Prof. Bryan and G. T. Friedlob (Assoc Prof) testified before the Securities and Exchange Commission's Forum on Small Business, and the testimony was reprinted in Management Accounting.

Agricultural Economics & Rural Sociology

B. H. Robinson (Prof and Hd) participated in a meeting of the National Agricultural Cost of Production Standards Review Board in Washington, D.C., Jan. 29-31.



The Clemson University Newsletter is published for Betty Mark, a custodial worker in the P&A Building, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . . John Mounter

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Continued from Page 3.

W. A. Tinsley (Prof) presented a paper, "What's Missing?" at the Agricultural Software Developers and Vendors Conference at Corpus Christi, Texas, Jan. 24.

Agricultural Engineering

The following papers were presented at the American Society of Agricultural Engineers (ASAE) National Conference on Agricultural Electronics Applications in Chicago, Ill., Dec. 13-16:

-- "Energy Efficient Drying Through Computer Control" by J. M. Bunn (Prof), J. L. Dunlap (Res Assoc) and R. G. Hammond (Comp Prog);

-- "Microcomputer Control of a Two-Stage Combustor: Formulation of a State Model, Controller Design and Controller Performance" by Dunlap and F. A. Payne (Asst Prof);

J. R. Lambert (Prof) presided over the technical session "Drainage, Instrumentation, Monitoring and Control" at that meeting.

The following papers were presented at the American Society of Agricultural Engineers (ASAE) meeting in Chicago, Ill., Dec. 13-16:

-- "Preloaded Vibration Study in Detaching Peaches" by Y. N. Chu (Grad Asst), R. E. Williamson (Prof) and C. E. Hood (Prof);

-- "Design, Installation and Operation of Card Systems" by C. W. Doty (Adj Assoc Prof), K. R. Cain (Dist Conserv, USDA) and L. J. Farmer (Area Engr, USDA);

-- "Predicting Water Table Levels With a Controlled and Reversible Drainage System" by K. Xue (Vstg Res Engr), J. T. Ligon (Prof) and R. C. Warner (Asst Prof, Univ. of Ky);

-- "The Role of Cooperative Education in Professional Development of Agricultural Engineers" by C. F. Armstrong (Prin Grad Asst) and J. C. Papriton (Asst Prof, Ohio St Univ);

-- "Development of Ground Color References for Southeastern Peaches" by M. J. Delwiche (Asst Prof) and R. A. Baumgardner (Assoc Prof, Hort);

-- "Prediction of Fruit Firmness by Impact Force Analysis" by T. P. McDonald (Grad Asst) and Prof. Delwiche;

-- "Trickle Irrigation Management for Tomatoes" by C. R. Camp Jr. (Adj Assoc Prof), M. L. Robbins (Prof, Hort), and D. L. Karlen Soil Sci, USDA);

-- "Design of Features for the Multi-Therm Solar-Earth House" by J. O. Newman (Adj Assoc Prof) and L. C. Godbey (Agr Engr, USDA-ARS);

-- "Low-Cost Solar Retrofit Void Air Collector" by Godbey, R. E. Harrison (Agr Engr, USDA-ARS), and Newman.

-- "Soil, Manure and the Salinity Problem" by H. A. Yousry (Grad Asst) and R. O. Hegg (Prof).

F. A. Payne (Asst Prof) presided over the technical session, "Thermo-chemical Conversion and Properties of Biomass" at that meeting.

The following have received funding for research and related activities:

-- K. Ladenburg (Vstg Prof), D. M. Talbert (Res Assoc) and V. A. Paynter (Res Assoc) -- \$175,000 from the Clemson Energy Research and Development Center to operate a screening laboratory for evaluating potential feedstocks for ethanol production;

-- J. R. Lambert (Prof) -- \$81,220 from the National Cotton Council for "Crop Simulation as a Real-Time Decision-Making Aid in Cotton Production," and \$73,600 from USDA and DOE for "The Impact of Increased CO₂

Photosynthesis and Agricultural Productivity;"

-- D. E. Linvill (Assoc Prof) -- \$600 from the Department of Commerce/NOAA for a case study demonstrating "The Utility of GOES Infrared Data to Assess Frost and Freeze Damage in the Southeast," and \$25,000 from the Department of Commerce/NOAA for continued agricultural meteorology activities;

G. D. Christenbury (Assoc Prof) -- \$400 from Carolina Power and Light Company to support Extension education in energy management;

-- J. G. Alphin (Prof) -- \$1,000 from Carolina Power and Light Company for Alternate Energy Research for Tobacco Curing," and \$5,018 from the South Carolina Tobacco Foundation for "Tobacco Curing Technology-Box Type Curing Containers;"

-- W. H. Allen (Assoc Prof) -- \$34,800 from USDA for "Renewable Energy for High Density Poultry Brooding;"

-- J. R. Lambert (Prof) and I. B. Israeli (Vstg Instr) -- \$4,500 from the Water Resources Research Institute (WRRI) for "Preliminary Studies of the Potential for Water Conservation in Irrigation Systems;" and

-- J. Zirschky (Grad Asst) -- \$1,000 from WRRI for "Overland Flow Potable Water Treatment."

The following papers were presented at the Southeast Region meeting of the American Society of Agricultural Engineers in Nashville, Tenn. Feb. 6-7:

-- "Diagnostic Techniques for Extraneous Voltage" by J. M. Bunn (Prof);

-- "Establishing an Equipotential Plane in Dairy Parlors to Correct Stray Voltage Problems" by R. A. Spray (Prof);

-- "Modeling Tractor Traction and Economics for Tillage Operations" by

M. B. Owen (Grad Asst), T. H. Garner (Prof) and W. A. Tinsley (Prof);

-- "Performance of a New Pasture Renovator/Clover Seeder System" by C. E. Hood (Prof), T. R. Garrett (Instr), C. N. Nolan (Prof, Agron & Soils), B. C. Morton (Ag Sci Assoc, Agron & Soils) and D. L. Cross (Prof, An Sci);

-- "The Mysterious Death of 60,000 Caged Layers" by W. H. Allen (Assoc Prof) and J. F. Welter (Assoc Prof, Poul Sci);

-- "On-Farm Solar Grain Dryers" by M. Buschermohle (Grad Asst), Prof. Spray and Prof. Bunn.

Prof. Newman chaired the general session at this meeting.

The following papers were presented at the S. C. Council of Engineering Societies meeting in Columbia, Jan. 20:

-- "Tillage, Traction and Energy" by T. H. Garner (Prof);

-- "Extraneous Voltage" by Prof. Spray;

-- "Green Onion Harvester" by Prof. Hood; and

-- "Land Application of Animal Waste" by R. O. Hegg (Prof).

J. A. Collier (Assoc Prof) has been granted a U.S. patent (Improved Under-water Harvester) for the Oyster Harvester.

Prof. Garner received the "Distinguished Agricultural Engineer Award" from the South Carolina Section of ASAE in October for his contributions to agricultural engineering and for his service to humanity.

Prof Garner presented "Instrumentation and Calibration of a Three-Point

Continued from Page 5.

Hitch Dynamometer," written with W. R. Reynolds (Vstg Instr), at the Beltwide Cotton Research Conference in Atlanta, Ga, Jan. 9-10.

At that meeting, Prof Garner was elected chairman for the Technical Committee for Regional Project S-134, "Engineering Systems and Energy Needs for Cotton Production."

B. J. Griffin (Assoc Prof) presented "Residential Moisture Control" at the National Housing Conference and National Association of Home Builders Annual Conference in Houston, Texas, Jan. 16-24.

Prof Griffin also presented "Remodeling" at the Ohio State University's Extension Annual Conference in Columbus, Ohio, Dec. 15-16, 1983.

J. R. Lambert (Prof) published a textbook, "Interfacing to the TRS-80 Computer," Reston Publishing Company, (September 1983).

C. V. Privette presented "Lower Sprinkler Pressure, Lower Operating Cost -- The Decision to Change" at the South Carolina Irrigation Society Annual Meeting in Orangeburg, Nov. 17.

T. V. Wilson (Prof) presented a paper, written with J. T. Ligon (Prof), "Vadose Water Storage Movement at an Upland Southern Piedmont Site" at the National Water Well Association Conference in Las Vegas, Nev., Dec. 8-10.

Architectural Studies

J. P. Holschneider (Prof) gave a lecture on "Design Methods Used in the College of Architecture at Clemson University" and conducted a workshop on "A Cultural Center for Columbus, Indiana" at an International Design

Seminar at the College of Architecture, Technical University -- Aachen, Federal Republic of Germany, Jan. 23-27.

Chemical Engineering

S. Gupta (Grad Stu) and J. M. Haile (Assoc Prof) published a paper, "Anisotropy in Computer-Simulated Fluids," in Chemical Physics, 83, 481 (1984).

Prof. Haile was invited to participate in a workshop on "The Use of Supercomputers" at the National Center for Atmospheric Research in Boulder, Colo., Dec. 8-9, 1983. The workshop was sponsored by the National Science Foundation.

Chemistry

R. A. Abramovitch (Prof) gave the following lectures:

-- "Enium Ions" at the Polish Academy of Sciences in Warsaw (Jan. 3), the Institute of Molecular and Macromolecular Chemistry in Lodz (Jan. 4), the University of Basel (Jan. 13), the University of Reims (Jan. 19), and the French Chemical Society, Mulhouse Section (Jan. 20);

-- "Sigmatropic Rearrangements of Heteroaromatic N-Oxide Derivatives" at Schering in West Berlin, Jan. 6.

-- "Flash Vacuum Pyrolysis" at the Swiss Chemical Society in Fribourg, Jan. 10.

Prof. Abramovitch was an external examiner for the doctoral thesis, "Synthese de Nouveaux Systemes Moleculaires Polyheterocycliques" by Paul Gesche, Dec. 22.

D. D. DesMarteau (Prof and Hd) and Y. Y. Zheng (Rsch Assoc) published a

paper, "Synthesis of 1,1-Difluoro-2-azaperhalo-1-butenes and Their Conversion to Oxaziridines," in the Journal of Organic Chemistry, 48, (1983) 4844.

Prof. DesMarteau presented a seminar, "Xenon-Nitrogen Compounds. A Tale of Lust for New Element-Element Bonds," at the University of North Carolina -- Asheville, Feb. 9.

A. R. Pinder (Prof), B. Ringdahl, W. E. Pereira and N. J. Oppenheimer (Grad Stus, Univ of Calif -- San Francisco) and J. C. Craig (Prof, Univ of Calif -- San Francisco) published a paper, "Optical Rotatory Dispersion and Absolute Configuration. The Chiroptical Properties of Indolizidine," in Journal of Chemical Society Perking Transactions I, (1984) 1.

J. Thrasher (Vstg Asst Prof) published the following:

-- "Reactions of N-Pentafluoro-sulfanylurethanes and Thiourethanes with Phosphorus Pentachloride" in the Journal of Fluorine Chemistry, 23 (1983) 593.

-- "A New Route to Tellurium-Nitrogen Compounds" in Angewandte Chemie International Edition English, 22 (1983) 789.

Ceramic Engineering

T. D. Taylor (Assoc Prof) and K. C. Rowan (Form Grad Stu) published an article, "Melting Reactions of Soda-Lime Silicate Glasses Containing Sodium Sulfate," in Communications of the American Ceramic Society, (December 1983).

Civil Engineering

R. H. Brown (Prof and Hd) has been

appointed to serve on the Technical Coordinating Committee for Masonry Research organized under the auspices of the Panel of Wind and Seismic Effects, U.S.-Japan Cooperative Program in Natural Resources.

He attended the committee's initial meeting in Pasadena, Calif., Feb. 7-8 and described Clemson University's masonry research capabilities. The cooperative research program is expected to result in a five-year research program, sponsored by the National Science Foundation, leading to full-scale dynamic testing of a five-story masonry structure.

H. W. Busching (Prof) presented a paper, "An Educator's Viewpoint of University/Industry Interchange," at the ASCE National Meeting in Houston, Texas, Oct. 17.

D. B. Stafford (Assoc Prof) and M. N. Byrd (Form Grad Stu) presented a paper, "An Analysis of Vehicle Delay and Road User Costs at Unwarranted Four-way Stop Sign Controlled Intersections," at the Sixty-third Annual Meeting of the Transportation Research Board in Washington, D.C., Jan. 16.

Prof. Stafford presented "Problems with Unwarranted Four-way Stop Sign Control" at the 1984 Annual Meeting of the South Carolina Council of Engineering Societies in Columbia, Jan. 20.

Computer Center

C. J. Duckenfield (Dir) published "Computer Literacy -- Crisis or False Alarm?" in the Electronic Education, (February 1984).

Computer Science

D. E. Stevenson (Asst Prof), D. D. Warner (Assoc Prof) and T. R. Brown (Fox

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Continued from Page 7.

Chase Cancer Ctr, Phil, Pa) published an article, "BIOBELL -- A Simulation System for Biochemistry and Biophysics" in Computers in Biology and Medicine Vol. 14, No. 1 (January 1984).

Elementary and Secondary Education

R. E. Jenkins (Assoc Prof), J. H. Walker (Assoc Prof), M. C. Woodson (Assoc Prof) and J. R. White (Acad Affrs) have completed a study, "NCAA Rule No. 48: A National Study of the Academic Implications for U.S. Secondary Schools." The study is the result of a random sampling of U.S. public, private and parochial senior high schools and has been disseminated nationally.

They presented an abstract of this study, "NCAA Rule No. 48: Implications for Secondary Principals," to the S.C. Association of Secondary Principals at Hilton Head, Jan. 14.

V. B. Stanley (Assoc Prof) contributed a chapter, "Language Arts: Grades Two and Three," to Teaching Language Arts (McGraw Hill, 1984).

Prof. Stanley gave two presentations, "Round Robin? No! Oral Reading? Yes!" and "Hearing, Saying, Reading, Writing and Feeling Words" to Anderson District 5 Chapter 1 teachers and aides, Feb. 20.

English

H. B. Bryant (Assoc Prof) read a paper, "Breaker Morant in Fact, Film and Fiction," at the 9th Film and Literature Conference at Florida State University in Tallahassee, Fla., Jan. 26.

Prof. Bryant published an article, "The Novels of Upton Sinclair," in The

Critical Survey of Long Fiction, Frank N. Magill, ed., Salem Press, Vol. Vi, 2416-2427.

S. K. Eisiminger (Assoc Prof) gave a poetry reading and conducted two workshops at Presbyterian College in Clinton, Feb. 21-22.

R. W. Moran (Prof) published two poems, "Days Like That" and "The Trip Back," in Yarrow, 3, No. 2 (1983) 14.

Environmental Systems Engineering

C. P. L. Grady Jr. (R. A. Bowen Professor), E. J. Kirsch (Faculty Mem, Purdue Univ) and M. K. Koczwar, B. Trgovcich, R. D. Watt (Form Grad Stus, Purdue) published "Molecular Weight Distributions in Activated Sludge Effluents" in Water Research, 18, (1984) 239-246.

L. G. Rich (Alumni Prof) has been elected Life Member of the Water Pollution Control Federation, an election which honors those who have been members 35 years or more and who have made outstanding contributions to the field of water pollution control.

Extension

W. T. O'Dell (Dir) has received the 1983 Distinguished Agriculturalist Award from the South Carolina Farmer Cooperative Council for his 20 years of service as director and associate director of the Extension program.

Extension Home Economics

J. H. Jenkins (Assoc Prof) served as first vice president of the S.C. Home Economics Association at the Carolina

Inn in Columbia, Feb. 23-25. She was also program chairman for the annual meeting and for the preconference workshop on "Networking for the Future."

L. L. Mahrer (Assoc Prof) spoke on "Manufactured Housing Demonstration Project" at the 16th Annual Convention of the Manufactured Housing Institute of South Carolina, Oct. 18. She also spoke at the Institute's quarterly meeting in Greenville, Aug. 17.

Prof. Mahrer was elected to membership in Delta Kappa Gamma, an international service fraternity for women in education, and she was initiated into Lambda Chapter, Sept. 27.

Prof. Mahrer presented a paper, "Financing Housing: Innovative Systems," at the World Congress on Housing in Miami Beach, Nov. 7. The Congress was sponsored by the International Association for Housing Science.

J. R. McRee (Assoc Prof) has been appointed to the steering committee for the 1984 Governor's Consultation on Rural Needs to be held at the White Oak Conference Center in White Oak, Aug. 23-25.

The following participated in the National Extension ECOP Workshop at the University of Houston in Texas, Jan. 17-20:

-- M. L. Swicegood (Prof), advisor to the workshop, presented a session on "Maximizing Your Job and Your Training" and moderated a panel discussion on "Extension's Role in the American Housing Dream."

-- Prof. Mahrer presented a paper on "Kitchen Adaptations for the Physically Limited" and participated in a panel on "Home Financing Alternatives."

-- B. J. Griffin (Assoc Prof, Ag Eng) presented a paper on "Moisture Control in Residences."

4-H and Youth Development

The 1984 S.C. Association of Extension 4-H Agents officers have been elected as follows: president -- Margaret Culler, Orangeburg County; treasurer -- Bob Spalding, Pickens County; vice-president, Nancy Harrison, Calhoun County; and secretary -- Leslee Spivey, Williamsburg County.

Geology

R. D. Warner (Asst Prof) presented a seminar, "Mineralogy and Petrology of Apollo 17 High Titanium Basalts," to the geology department at Furman University in Greenville, Jan 20.

History

J. L. Arbena (Prof) published a review of The Music of Brazil by D. P. Appleby in the South Eastern Latin Americanist (December 1983).

P. E. Ceruzzi (Asst Prof) published a review of History of Programming Languages in Technology and Culture, (January 1984) 144-46.

Industrial Engineering

C. R. Lindenmeyer (Prof) gave a presentation, "Microcomputer-Based Work Sampling Study Design and Execution," including a demonstration of MICRO-CAWS (Microcomputer-Aided Work Sampling), to the Clemson University Chapter of the American Production and Inventory Control Society, Feb. 16.

Continued from Page 9.

Languages

J. B. Macy (Asst Prof) served as consultant for Beaufort County's Academic Olympic Competition at Hilton Head Island, Feb. 16.

Management

A. F. Czajkowski (Assoc Prof) has been named a consultant in the areas of national security and nuclear war for the Board of Higher Education and Ministry, Division of Higher Education, The United Methodist Church.

Prof. Czajkowski gave a talk on "The Economic Impact of Military Spending" at a conference on "The Crisis in the Economy: A Challenge to the Churches" in Rock Hill, Feb. 8. The conference was co-sponsored by the Connective Ministry Across the South and the Glenmary Commission on Justice.

Prof. Czajkowski conducted a workshop, "Military Issues/The Arms Race," at a conference on "Peace and National Security: Matters of Necessity" at Winthrop College, Feb. 25.

The conference was sponsored by the Winthrop College Campus Ministry and Joynes Center for Continuing Education, the S.C. Conference of the United Methodist Church, the Lutheran Brotherhood, the American Association of University Women, the Presbyterian Church (USA) and Bethel Presbytery, the Sierra Club, and the General Board of Global Ministries -- the United Methodist Church.

T. L. Leap (Assoc Prof) and T. A. Oliva, (Columbia Univ) published "General Systems Precursor Theory as a Supplement to Wren's Framework for Studying Management History" in Human Relations, Vol. 36, No. 7 (1983).

M. J. Stahl (Prof and Hd), T. W. Zimmerer (Prof) and A. Gulati (Grad Stu) published a paper, "Measuring Innovation, Productivity and Job Performance of Professionals" in the Special Issues on Managing Technical Professionals of the IEEE Transactions on Engineering Management, (February 1984).

Prof. Zimmerer and C. W. McNichols (Prof) have had an article, "Situational Ethics: An Empirical Study of Differentiators of Student Attitudes," accepted for publication in the Journal of Business Ethics.

Marketing

M. C. LaForge (Asst Prof) and P. Kernodle (Limestone College) presented a paper, "The Influence of Personal Values on Choice of Sofa Style Among Female Consumers," at the Southeast American Institute for Decision Sciences, and the paper was published in the society's refereed Proceedings.

Prof. LaForge has been selected marketing education track chairperson for the Southern Marketing Association Conference to be held in New Orleans, La., (Fall 1984).

R. M. Reese (Assoc Prof) R. LaForge (Okla State) and W. Stanton (Old Dominion) published "Identifying and Attracting Consumer Outshoppers" in the Journal of Small Business Management (January 1984).

Prof. Reese and Stanton presented "An Examination of the Retrofit Market for Energy Saving Products" at the Southern Marketing Association meeting in Atlanta, Ga., in November, and it was published in the SMA Proceedings, Marketing: Theories and Concepts for an Era of Change.

Mathematical Sciences

J. V. Brawley (Prof) gave an invited

lecture, "The Gambler's Ruin," to the mathematics department faculty and students at the University of North Carolina -- Asheville, Feb. 8.

F. M. Cholewinski (Prof) published "Generalized Fock Spaces and Associated Operators" in the SIAM J. MATH ANAL. (Society for Industrial and Applied Mathematics Journal) Vol. 15, No. 1, (January 1984).

J. W. Kenelly (Prof) presented a conference for advanced placement mathematics teachers in Birmingham, Ala., Feb. 9. The program was sponsored by the Alabama Steering Committee of the Commission on Higher Education.

Prof. Kenelly was the mathematics presenter at a pre-meeting seminar on the Advanced Placement Program at the 1984 Southern Regional Assembly of The College Board in Atlanta, Ga., Feb. 21. The sessions were co-sponsored by the Atlanta Public School System as a part of its "Emphasis on Excellence" program.

Prof. Kenelly gave an address, "Academic Preparation for College -- What Colleges Expect; What Principals Can Do," at the 68th Annual Meeting of the National Association of Secondary School Principals in Las Vegas, Nev., Feb. 4.

Prof. Kenelly gave an inservice workshop for the mathematics teachers in Greenwood School District in Greenwood, Jan. 5.

Prof. Kenelly co-chaired the Annual Meeting of the Mathematics Association of America--College Board Committee on Mutual Concerns at the Meeting of the Mathematics Societies in Louisville, Ky, Jan. 25-28. He also participated in a series of discussions and committee meetings of the MAA's panel on remediation.

Prof. Kenelly chaired a team of consultants invited to review the academic program at the Virginia Military Institute in Lexington, Va., Feb. 5-7.

W. F. Moss (Assoc Prof) published two papers: "Numerical Solution of Integral Equations with Convolution Kernels-II" in Journal of Integral Equations 6, 1-9 (1984); and a NASA Contractor Report, "Spinning Model Acoustic Radiation From the Flight Inlet," in ICASE (November 1983). This work was supported by NASA contracts while Prof. Moss was in residence at the Institute for Computer Applications in Science and Engineering, NASA Langley Research Center, Hampton, Va.

W. H. Ruckle (Prof) gave a lecture, "The Linearizing Projection and Its Application to Mathematical Economics," at a colloquium at University College in Cork, Ireland, Feb. 2.

D. R. Shier (Prof) and J. G. Fisher (Form Grad Stu) published a paper, "A Heuristic Procedure for Large-Scale Examination Scheduling Problems," in Congressus Numerantium, Vol. 39 (1983) 399-409.

Prof. Shier and F. R. McMorris (Bowling Green Univ) published a paper, "Representing Chordal Graphs on $K_{1,n}$ " in Commentationes Mathematicae Universitatis Carolinae, Vol 24 (1983) 489-494.

Prof. Shier presented two talks, "Algorithms for Finding Shortest Paths" and "Measuring the Similarity of Classification Trees," to the mathematics department at Western Carolina University in Cullowhee, N.C., Feb. 15-16.

Parks, Recreation and Tourism Management

B. J. Mihalik (Asst Prof) has had two articles accepted for publication: "Vandalism and Its Relationship to Design" by Trends; and "Land Preservation for Public Use" by Network News.

Continued from Page 11.

Physics and Astronomy

The following papers were presented at the Southeastern Section of the American Physical Society Meeting at the University of South Carolina in Columbia, Nov. 3-5:

-- "Stress Dependence of the CDW Transitions in NbSe_3 and TaS_3 " by R. S. Lear (Vstg Prof) and M. J. Skove (Alumni Prof);

-- "Stress and Current Dependence of CDW Dynamics in TaS_3 " by T. A. Davis (Vstg Prof), Prof. Skove and E. P. Stillwell (Prof); and

-- "Low Frequency Broadband Noise in NbSe_3 " by T. M. Tritt (Grad Stu), Prof. Davis, Prof. Lear, Prof. Skove and Prof. Stillwell.

A. L. Laskar (Prof) directed the Indo-U.S. Workshop on "Diffusion in Solids" in Bombay, India, Jan. 9-12. He presented the inaugural speech at the conference and gave an invited plenary talk on "Diffusion and Defects in Silver Halides." The workshop was supported by an NSF grant.

Prof. Laskar participated in the International Conference on "Lattice Defects" in Delhi, India, Dec. 12-15 and presented colloquia at the universities at Udaipur, Jaipur, Delhi and Jadavpur; N.P.L. and I.I.T. at Delhi, Kaupur and Madras.

Prof. Laskar gave lectures at Frankfurt University, in Frankfurt, Germany, and at C.E.N., Saclay, France, Jan. 13-17.

Prof. Laskar and W. J. Mealing (Form Grad Stu) presented a paper, "Ionic Size Effect on the Dipolar Relaxation in Potassium Azide," at the SESAPS meeting in Columbia, Nov. 3-5.

Political Science

H. E. Albert (Prof) presented a paper, "Team Building and Policy Decision Making," to a symposium for elected officials in the Appalachian Council of Governments area in Greenville, Feb. 2.

Publications and Graphics Services

The Office of Publications and Graphics Services won two PICAwards in the 1983 annual competition sponsored by PICA, The Printing Industry of the Carolinas Inc. The Visitors Center fund-raising folder won first place in the nonprocess educational folders class for excellence in concept, design, presentation and printing. The 1983 Clemson Medallion program placed second in the nonprocess educational programs class.

Sociology

J. W. Ryan (Asst Prof) received a research grant from the American Sociological Association Council Subcommittee on Problems of the Discipline to study the effects of commercial competition on the British broadcasting industry. He will conduct the study in England this summer.

University Union

B. Mandicott (Prog Dir) presented an educational session, "Establishing a Collegiate Travel Center," at the NACA National Conference in Nashville, Tenn.

MAR 27 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

March 30-April 6

SEMINARS AND LECTURES

- 30-1 Seminar: "Clemson Hospitality and Tourism Invitational" with keynote speaker Peter Spurney, president 1984 Louisiana World Exposition. Sponsored by department of parks, recreation and tourism management. Call 656-2060 for more information.
- April 2 Lecture: "Food Additives: Why Are They Important?" by Ben Borenstein, director of product development, Hoffman-LaRoche Ltd. and a lecturer for the Institute of Food Technologists. Sponsored by food science department, 104 Newman Hall, 7:30 p.m. Call 656-3397 for more information.
- 2-4 R. C. Edwards Science and Technology Lectures: Ronald L. Graham, director of Bell Laboratories' Mathematics and Statistical Research Center, will speak on "The Shortest Network Problem," 8 p.m., April 2, Daniel Hall Auditorium, and "Foresight in Pure Math Applications," 11:15 a.m., April 4, M-102 Martin Hall. Sponsored by Honors Program. Call 656-4720 for more information.
- 2-4 Seminar: "Project Management and the Personal Computer." Sponsored by Professional Development, Sirrine Hall. Call 656-2200 for more information.
- 3-4 Seminar: "Continuous Dyeing of Woven Cotton and Cotton Blend Fabrics." Sponsored by Professional Development, Holiday Inn. Call 656-2200 for more information.
- 3,5 Lecture: "Science Citation Index" by Larry Kelland, reference librarian. Sponsored by Robert M. Cooper Library, library classroom, 1:30-2:30 p.m. and 4:30-5:30 p.m. on both days. Call 656-3024 for more information.
- 4 English Hour reading. Best student poetry and prose for 1983. Sponsored by English department, 108 Strode Tower, 8 p.m. Open to public. Free. Call 656-3151 for more information.

CH EVERS

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CU EVENTS (Cont.)

MUSIC, DRAMA AND EXHIBITS

- 30-13 Betty Hahn Photographs and John Acorn Sculpture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- April 1 Clemson Chorale Society Concert. Sponsored by music department, Daniel Hall Auditorium, 3 p.m. Open to public. Free. Call 656-3043 for more information.
- 3 Performing Artist Series: The Modern Brass Quintet. Sponsored by University Union and Alumni Association, Tillman Hall Auditorium, 8 p.m., \$5. Call 656-2461 for more information.
- 4 Drama: "Same Time Next Year" by Repertoire Theatre Group of America. Sponsored by University Union, Edgar's, 8 p.m., ice cream sundae buffet at 7 p.m., \$3. Call 656-2461 for more information.
- 5 "The Reading Band" rehearsal. Sponsored by music department, Holtzendorf YMCA, band room. Open to anyone who plays a musical instrument. Call Rick Goodstein or Bruce Cook at 656-3380 for more information.
- 5 Clemson University Chorus and Choral Ensembles Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

FILMS

- 30-31 "Eating Rauol." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- April 4 Five Directions Cinema: "Soldier of Orange." Sponsored by English department, Y-Theatre, 7:30 p.m., \$2. Call 656-3151 for more information.

SPORTS

- 30 Baseball: Florida State, here, 3 p.m.
- 31 Baseball: N.C. State, here, 2 p.m.
- April 1 Baseball: University of North Carolina, here, 2 p.m.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of President for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Vice-President for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Secretary for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Treasurer for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Medicine for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Surgery for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Obstetrics and Gynecology for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Pediatrics for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Dermatology and Syphilology for the year 1932-1933. The names are listed in alphabetical order of their last names.

The following is a list of the names of the members of the American Medical Association who have been elected to the office of Chairman of the Committee on the Practice of Radiology for the year 1932-1933. The names are listed in alphabetical order of their last names.

CU EVENTS (Cont.)

OTHER EVENTS

- April 1 Priority deadline for applying for National Direct Student Loans and College Work Study Program for the 1984-85 academic year. Call the financial aid office at 656-2280 for more information.
- 2-6 Founder's Week. Sponsored by Alumni Association. Call 656-2345 for more information.
- 2 Carolina Journal: Tom Collins, an assistant professor of physics, talks about the future directions of the U.S. Space Program, this segment re-scheduled from Feb. 27. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 4 Founder's Week Prayer Service. Sponsored by Alumni Association, St. Paul Episcopal Church, Pendleton, 5 p.m. Reception following at Alumni Center sponsored by University Club. Call 656-2345 for more information.
- 6 Clemson Medallion Dinner. Sponsored by Alumni Association. Call 656-2345 for more information.

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April 4, 1984

Vol 23 No 30

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APR 4 1984

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



GARDEN VOLUNTEERS GROW 'FOOD FOR THE SPIRIT'

One frosty day last January, horticultural gardens manager Lonny Schmid unexpectedly received a donation of several hundred thousand bulbs from the Park Seed Company.

The task of getting that many bulbs in the ground on a moment's notice might have been overwhelming had it not been for the core of volunteers Schmid has come to rely on to help keep the gardens in shape.

"The bulbs needed to get in the ground right away," says Schmid, "and with a few calls, the next morning we had 11 volunteers out here planting just on one day's notice."

The 25 to 30 garden lovers who make up the group, says Schmid, will also be

out in the gardens April 14 from 9 a.m. until 3:30 p.m. to show off the fruits of their labor during spring open house.

"This will be the first time we've had a garden-wide open house in the spring with guided tours," says Schmid, "but since public education is one of our main purposes here, and since this will be a peak weekend for the gardens, we thought it would be a good time to formally invite the public out."

The volunteers, both men and women, do everything from planting and weeding the gardens and tending the greenhouses, to sprucing up the Ransom Hunt Cabin, giving guided tours, and growing herbs and wildflowers.

Working with herbs is one of the highlights of the day for gardens volun-

Continued on Page 2.



THIRTY GREEN THUMBS --
When it comes to gardening, you might say these folks are real "thumbdys." Lonny Schmid, horticultural gardens manager, and Barbara Schmidt (center) and Helen Mattmuller, two of the gardens' 30 volunteers, are getting ready for the spring open house April 14. Volunteers will be giving tours and selling herbs from 9:30 a.m. to 3:30 p.m. The gardens are open daily from sunup to sundown.

Continued from Page 1.

teer Helen Mattmuller, an occupational health nurse with the Westinghouse Micarta Division in Pendleton.

"Of course we enjoy the flowers here," she says. "It's so peaceful and relaxing out here, it's truly food for the spirit. But maybe just as much we enjoy the companionship, the people we meet and the friends we make."

Moving down from Long Island, N.Y., about a year ago, Mattmuller first saw the gardens on the Nancy Welch television show, heard the call for volunteers, and decided to put her gardening enthusiasm to work.

And she has become smitten with the gardening fever, arriving (from May to July) at 7 in the morning and working until around noon.

Seneca volunteer Barbara Schmidt, who moved down from Wisconsin, enjoys "showing off the gardens" to visitors, especially the children's groups that come through.

"One of the most fascinating herbs to the children is sesame," she says. "One little girl, when she saw that we grew sesame here said, 'I knew that it just didn't grow on the rolls, but then I didn't know where it came from.'"

The volunteers, besides donating their time, also sponsor fund-raising projects and "plow" the money back into tilling the gardens.

At the open house on the 14th, for instance, they will be selling herb plants such as chives, thyme, mint, basil, and French tarragon.

During the Christmas season, a committee sells crafts at the log cabin, with local artist Elizabeth Fuller donating paintings for the project. Last year \$1,500 was raised for the gardens, says manager Schmid.

"We're trying to raise enough money to buy furnishings for the cabin," says volunteer Schmidt. But until then, the volunteers will continue to "pitch in" and bring their own furnishings and decorations to spruce up the cabin for open house.

Volunteers receive training in gardening techniques

Schmid says the volunteers are given training sessions on landscaping, gardening and growing vegetables and often take outings to nurseries and gardens of educational interest.

"The volunteers are unusually loyal to the gardens and have quite a feeling of pride in what they do out here," says Schmid. "It seems to help provide that basic human need of getting together with others and having friendships grow out of that need."

The gardeners most favorite "chore," if it can be called that, is the actual planting, the getting down and digging in the dirt, he says.

"I think there's a kind of release that you get in working with the earth," he says. "While you're out there planting, you may not necessarily be thinking about the seed itself, but you may be visualizing the bed of begonias that will bloom from that little miracle of a seed. The feeling you get from that, you can't explain it, but it's definitely therapy for anyone."

During open house, guided tours will begin at 9:30 a.m. and will be given every hour, with the exception of the noon hour. Schmid says visitors can expect to see azaleas, dogwoods, wild-flowers native to South Carolina, and spring flowering bulbs, such as daffodils and tulips.

The gardens, extending over 73 acres, include a hortitherapy garden laid out for the wheelchair bound, a

pioneer garden, and a garden for the blind with a braille trail.

Schmid cautions against removing plants or flowers from the garden, as the urge to "pick just one" is apparently too much for some visitors to resist.

"They seem to think that if they take just one, it won't matter, but it does," he says. "For one thing, with 50,000 people going through the gardens every year, if everyone decides to 'take just one,' we won't have any gardens left. And removing plants or flowers can completely destroy a research project."

You don't have to wait for an invitation to visit the gardens, says Schmid; you or your group can arrange for a tour by calling the horticulture department at 656-3404.

ENTOMOLOGY DEPARTMENT DEDICATES STATE'S FIRST ENTOMOLOGY JOURNAL

A new publication on entomology is putting South Carolina men and women who study insects on the map. And the ento-



The Clemson University Newsletter is published for Kay M. Kay, a secretary in civil engineering, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor Jack A. McKenzie
Assistant Editor Joyce Barrett
Production Assistant . . John Mounter

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

mology, fisheries and wildlife department here is playing a key role in that publication.

The Journal of Agricultural Entomology, published by the S.C. Entomological Society Inc., is a quarterly collection of works of original research about insects and other arthropods of agricultural interest.

Only a dozen or so states have entomological societies, and very few of those publish journals, says T. R. Adkins, a professor of entomology who edits the journal.

"The journal created a lot of interest throughout the entomological world," Adkins says. "Before the first issue went to press we had received 69 manu-

Continued on Page 4.



FIRST COPY -- The first copy of the first issue of the Journal of Agricultural Entomology, published by the S.C. Entomological Society Inc., was presented to Mrs. James H. Cochran, wife of the late James Cochran to whom the journal is dedicated. Cochran was head of the entomology and zoology department from 1953-1969. Making the presentation are Sid Hays, left, entomology department head, and T. R. Adkins, editor of the journal.

Continued from Page 3.

scripts, including three from outside the United States."

The journal's publication, says Adkins, has resulted in an increase in the membership of the state's entomological society from 150 to about 350.

The first issue, containing 12 papers, was published in January and dedicated to the late James Harvey Cochran, a former head of the entomology and zoology department here, and the first president of the S.C. Entomological Society.

Subscribers to the journal include libraries and government agencies.

"This is the first time the society has undertaken a project like this, and we believe we have the only journal in the world dealing solely with agricultural entomology," says Bill Dubose, a visiting assistant professor of entomology who serves as the journal's business manager.

"We're dedicated to putting out a publication that will be a credit to South Carolina and Clemson University, and we think it is already recognized as such," he says.

THE NUT HUT WANTS TO HELP YOU PLAY EASTER BUNNY THIS YEAR

Fruit, almond, and roasted peanut lovers, take note! The University Union Nut Hut now has more to tickle your snack fancy.

And this year those nutty bunnies

are packaging their latest combination of goodies in Easter baskets.

To fill your basket, take your choice from a flavorful assortment of "teenie beenies" (jellybeans in such wild flavors as pina colada, amaretto, and tropical punch), smoked Blue Diamond almonds, salted roasted peanuts in the shell, or "Tiger Food," a mixture of raisins, apricots, pineapples, papayas, and coconut flakes.

"We've designed a special Easter basket which we'll deliver directly to your office," says Ruth Smith, Nut Hut manager, "but please place your order soon."

The 5-by-9-inch baskets, filled with Nut Hut goodies and a toy chick, costs \$3 each, "a comparatively lower price than the regular supermarket price," says Smith.

Delivery dates for the baskets will be April 19-20. You may place your order with the Nut Hut delivery person who visits your office, or you may call 656-2461.

CHOLESTEROL CLARIFICATION

In a Feb. 22 Newsletter article, HDL, a high-density lipoprotein, was reported to be a form of cholesterol.

James Zimmerman, an associate professor of biochemistry, points out that HDL is not a form of cholesterol, but a protein-lipid complex containing cholesterol.

The Newsletter staff appreciates the clarification.

APR 4 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

April 6-13

WORKSHOPS, SEMINARS AND LECTURES

- 6 Hunter Honor Lecture: "Mapping the Electrical Activity of the Heart" by John Boineau, staff physician and director of cardiac rehabilitation at the Veterans Administration Hospital, Augusta, Ga. Sponsored by interdisciplinary studies department, Room 100, Lee Hall. Call 656-3051 for more information.
- 7 Clemson Architectural Foundation Lecture Series: Honors Day Speaker Peter Blake, chairman, architecture department at Catholic University of America. Sponsored by Clemson Architectural Foundation and College of Architecture, Lyles Auditorium, Lee Hall, 2:30 p.m. Call 656-3081 for more information.
- 9 Short course: "Discovering Natural Foods III." Sponsored by University Union, 7-8:30 p.m., \$1. Sign up at Union Information Desk or call 656-2461 for more information.
- 10-13 Workshop: "Engineering Application of Micro Data Base Systems." Sponsored by Continuing Engineering Education, 367 Sirrine Hall. Call 656-3308 for more information.
- 11 Seminar: "Turbulent Reattaching Jets" by J. A. Liburdy, an associate professor of mechanical engineering and "Buoyancy Driven Motion Within Encloser" by R. S. Figliola, an assistant professor of mechanical engineering. Sponsored by mechanical engineering department, 300 Riggs Hall, 3:30-4:30 p.m. Call 656-3470 for more information.
- 11 Luncheon address: "South Carolina Extension Services for Women" by Emily Wiggins, an assistant professor of home economics. Sponsored by Women in Higher Education Network, Holiday Inn, 11:45 a.m.-1 p.m., \$5 fee includes lunch. Call 656-2353 for more information.

CONVENTS

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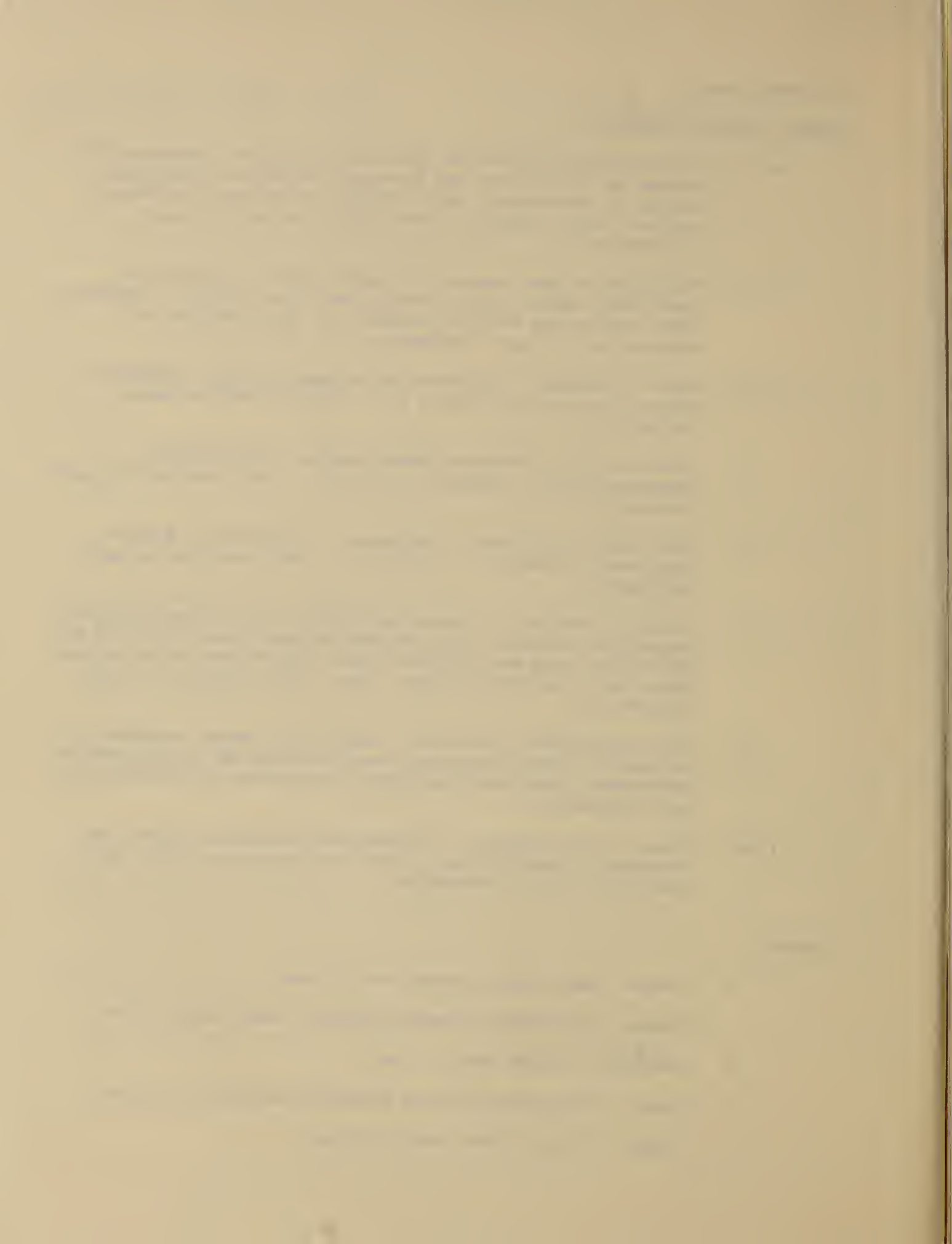
CU EVENTS (Cont.)

DRAMA, FILMS AND EXHIBITS

- 6-13 Betty Hahn Photographs and John Acorn Sculpture. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.
- 7-14 "The House of Blue Leaves," a Clemson Players' production, Daniel Hall Annex, 8 p.m., April 8 and 12 at 3:30 p.m. Students free, faculty and staff \$1, others \$2. Call 656-2476 for reservations and more information.
- 8 Film: "Showboat." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 9 Classic movie: "Streetcar Named Desire." Sponsored by University Union, Y-Theatre, 8 p.m., \$1. Call 656-2461 for more information.
- 11 Five Directions Cinema: "Walkabout." Sponsored by English department, Y-Theatre, 7:30 p.m., \$2. Call 656-3151 for more information.
- 12 "American Buffalo," a repeat performance of the Clemson Players' production selected by the American College Theatre Festival as one of the seven best college theatre productions in the nation. Daniel Hall Auditorium, 8 p.m. Free. Call 656-2476 for more information.
- 12 "The Reading Band" rehearsal. Sponsored by music department, Holtzendorf YMCA, band room. Open to anyone who plays a musical instrument. Call Rick Goodstein or Bruce Cook at 656-3380 for more information.
- 12-14 Film: "Risky Business." Sponsored by University Union, the Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 7 Tennis: Wake Forest, women, here, 1 p.m.
- 8 Tennis: University of South Carolina, women, here, 1 p.m.
- 10 Baseball: Furman, here, 3 p.m.
- 10 Tennis: University of South Carolina, here, men, 2:30 p.m.
- 13 Tennis: Trinity, here, men, 2:30 p.m.



CU EVENTS (Cont.)

OTHER EVENTS

- 6 Clemson Medallion Dinner. Sponsored by Alumni Association. Call 656-2345 for more information.
- 6 Travel: Atlanta Braves game. Sponsored by University Union, 3:30 p.m.-1:30 a.m., \$20. Sign up at Union Information Desk or call 656-2461 for more information.
- 7 Whitewater rafting on the Nantahala. Sponsored by University Union, 9 a.m.-5 p.m., \$16.50. Sign up at Union Information Desk or call 656-2461 for more information.
- 7 Honors and Awards Day.
- 9 "Speech Night Contest." Sponsored by Clemson Forensic Union and English department, Daniel Hall Auditorium, 7:30-8:30 p.m. Open to public. Free. Call 656-3151 for more information.
- 9-13 Preregistration.
- 11 Coors campus games. Sponsored by University Union, Edgar's, 8 p.m. Call 656-2461 for more information.
- 12-13 Contest: "Biology Merit Exam for Middle School and High School Students," an exam designed to identify outstanding performance in biology. Sponsored by Biology Program, Long Hall, 6 p.m.-10 p.m., April 12; 8 a.m.-8 p.m., April 13. Open to high ability middle school and high school biology students. Registration fee, \$3. Call 656-2416 for more information.
- 12-13 Concert: "Heartfixers." Sponsored by University Union, Edgar's, 9 p.m., \$2. Call 656-2461 for more information.

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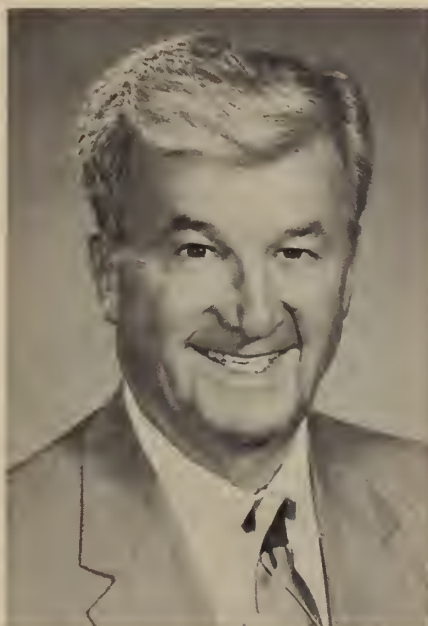
Newsletter

April 11, 1984
Vol 23, No 32

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Bryan



Cox

Bryan and Cox receive 1984 Clemson Medallion

The war correspondent who gave the world the first eye-witness account of the 1944 Normandy Invasion and a key University administrator who has guided Clemson through a population explosion from 2,700 students in 1955 to more than 12,500 students today have received The Clemson Medallion.

President Bill Atchley April 6 presented the Medallion, the University's most prestigious public award, to two alumni: William Wright Bryan, retired journalist and vice president for development, and Walter Thompson Cox, vice president for student affairs and dean of students.

Board of Trustees Chairman James Waddell presided over the Medallion ceremony, which honors individuals who have sustained and magnified the heritage of the University's founder, Thomas Green Clemson, and who exemplify his dedication and foresight in service to Clemson University and to the community.

Bryan and Cox were chosen because they, as models of leadership, embody the essence of The Clemson Medallion, Atchley said.

Bryan, born in Clemson, joined the Cadet Corps here in 1922, and, although he majored in civil engineering, he developed an abiding love for writing.

Honing his journalistic skills for four years on The Tiger staff, after graduation he went to The Greenville Piedmont as a reporter and then into broadcast journalism at WSB Radio in Atlanta, Ga. From there he became the World War II correspondent who gave the first eye-witness account of the 1944 Normandy Invasion.

For his service as war correspondent, which carved for him a permanent niche in the annals of communications history, Bryan was awarded the Medal of Freedom. The medal was presented by Gen. Dwight D. Eisenhower, who said Bryan had "disting-

uished himself by his sound judgment, unfailing devotion to the Allied cause and accurate orientation of the American people."

After the war, Bryan continued his journalistic career by becoming editor of The Cleveland Plain Dealer, where his expertise in newspapering did not go unnoticed: He was elected by his professional peers to head The American Society of Newspaper Editors.

Neither were his achievements going unnoticed at his alma mater, for in 1956 he was summoned back home to receive the Honorary Doctorate of Letters degree.

In 1964 he returned to Clemson as vice president for development and helped steer the school during the turbulent era of the sixties before he retired.

In retirement, synthesizing the chief forces of his life -- Clemson and journalism -- he has completed what probably is his most personally fulfilling achievement in writing "The History of Clemson University."

A part of that history includes Walter Cox, whose lifelong engagement with Clemson began with his entrance into Clemson College in 1935.

He immediately established a home-base here as commander of the Cadet Corps and as an outstanding athlete. A letterman in the Block "C" Club and an All-State guard on the football team, Cox anchored the front line on

(Continued on page 2.)

Newsletter gets a new look

To state the obvious, the Newsletter has a new look.

To save money and space and to allow more format flexibility, the Newsletter is now being typeset.

And, if Murphy's right, there'll probably be some kinks to work out in the resulting new production system.

The staff asks for your patience and understanding while we chase the bugs out of the system.

And, as always, we invite your comments, suggestions, and story ideas. Send them to 103 Fike or call 656-2467.

(Continued from page 1.)

the championship team that led Clemson to a Cotton Bowl victory in 1940.

Graduating from the science program in 1939, he became an assistant football coach, and in 1941, when the boxing coach was called to active military service, Cox inherited the additional duties of coaching that sport.

At the same time, he was handling the recruitment of student-athletes and the promotion of IPTAY memberships. He even volunteered to help clear the land -- with handsaws, chains and mules -- for Clemson's first stadium.

His assignment in 1942 to military duty in the Fiji Islands is the only instance of his departing Clemson. When he returned, he resumed his position as an assistant football coach, was named baseball coach, and later became instructor of physical training for the Army and Air Force units.

In 1950 he was asked to become assistant to Clemson President Robert F. Poole. In that role Cox directed the public relations and alumni affairs programs during the school's critical transition from the strict military discipline of the Cadet Corps to the status of a civilian institution.

His work ranged from managing discipline problems and coordinating half-time programs for football games to reorganizing alumni records, forming alumni clubs and planning class reunions and Homecoming activities.

That background led to his appointment as Clemson's first vice president for student affairs and dean of students, a position from which he has guided the campus through a population explosion from 2,700 students in 1955 to more than 12,500 students in 1984, a span of years including the enrollment of women and the desegregation of the campus.

Beyond the campus, he serves on the boards of directors of both Blue Cross/Blue Shield of South Carolina and the South Carolina Public Service Authority, and he is a past president of the Anderson Rotary Club.

Both Cox and Bryan are also recipients of the Alumni Distinguished Service Award.

Burlington endows new management professorship

The management department has received a boost in its increased emphasis on industrial management programs: Burlington Industries has announced a \$125,000 endowment to fund a "Burlington Professorship in Manufacturing Policy."

Management department head Mike Stahl says the search for a candidate to fill the titled professorship will begin next academic year, and the Burlington Professor will be named sometime in 1985.

"Because of industry's increased emphasis on production and manufacturing strategy today," says Stahl, "we have increased the emphasis on our industrial management programs."

Whereas the department formerly offered only a master's in management and a doctorate in engineering management, both the master's and the doctoral degrees are now offered in industrial management, he says.

"We think this professorship will help strengthen our degree programs, especially in the area of manufacturing strategy," says Stahl, "and help us educate a larger number of people oriented toward production and manufacturing operations."

Besides providing the department an outstanding scientist and researcher in the field of manufacturing policy, the endowment, says Stahl, will help to ensure manufacturers throughout the Southeast that Clemson will continue to help improve the quality of industrial management through research and teaching.

Ryan Amacher, dean of the College of Commerce and Industry, says of the endowment, "We are very grateful to the Burlington Foundation for this vote of confidence in our program and their investment in its continued improvement."

The \$125,000 endowment will be paid in three annual installments beginning this summer and ending in 1986.

Animal facilities veterinarian named

Director of the Office of University Research Stan Nicholas has announced the appointment of David Wise, a doctor of veterinary medicine, as University animal facilities veterinarian.

Wise, a retired Air Force colonel and a practicing veterinarian in Ohio since



Wise

1951, will report to Provost David Maxwell through the Office of University Research in the quarter-time position.

As animal facilities veterinarian, Wise will be responsible for coordinating, maintaining and overseeing implementation of a University-wide policy on the care and housing of animals used in research.

Specifically, his duties will be to provide University animal facilities with veterinary care and a preventative medicine program; to provide occupational health and training programs for employees who work with animals in research; and to regularly inspect animal facilities and assure compliance with University, federal and state regulations.

Adding a University-wide veterinarian, a recommendation of the Committee on Laboratory Animal Welfare (CLAW), should help in implementing the federal and state regulations more uniformly throughout the University, says Wise.

"We want an animal welfare policy acceptable to all the colleges involved," he says, "and we'd like it to be compatible with existing policies the colleges may have."

Other CLAW recommendations include the upgrading of existing animal facilities and the construction of a central animal facility for the University.

Wise, 57, received a master's in radiobiology at the University of Roches-



The Clemson University Newsletter is published for Judy Hempel, a secretary in the College of Nursing, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

ter, a master's in public health from the University of Pittsburgh and a doctorate in veterinary medicine at Ohio State University. He is a diplomate of the American College of Veterinary Preventive Medicine.

If you have questions about the University's policies on animal welfare, you may contact Wise at his office in 216 Martin Hall or call him at 656-2375.

Take a few minutes to give a few years

It will take only 20 or 30 minutes of your time, but it could add 20 or 30 years to someone's life, whether that someone be a child at the Shriners Hospital in Greenville or a faculty or staff member here.

The University's chapter of Alpha Phi Omega National Service Fraternity, in cooperation with Anderson Memorial Hospital, is sponsoring a campus-wide blood drive again this semester, but there is one difference says project chairman Greg Holbrooks.

"This year the donations will be divided," he says, "with half going to the Shriners Hospital and the other half going for a student-faculty-staff blood bank."

Until now, all the blood collected during APO campus blood drives was credited to the Shriners Hospital. But this year, says Holbrooks, faculty and staff members who become blood donors will be helping out their colleagues here as well as the children at the hospital.

"Eventually," he says, "we hope our blood bank will grow to accommodate spouses and dependents of students and employees, too. And at \$100 a pint, which is the hospital cost of a pint of blood, that could really be beneficial."

Holbrooks says the blood bank reserve is low right now. "We have maybe 50 pints in supply, but one accident could use that up."

The Anderson Memorial Hospital Mobile Blood Unit will be in the Palmetto Ballroom in the University Union Complex April 17-19. You can drop by anytime between noon and 7 p.m. -- if you have a few minutes to give someone a few years.

Egg supply low, prices high, says poultry scientist

The Easter season symbolizes a time of growth, renewal and rebirth, and egg lovers, especially, discover a part

of that growth when they stop at the dairy counter to pick up a carton of eggs.

This season your egg budget may suffer a double whammy, as the usual inflated prices around Eastertime combine with other conditions to force egg prices up even higher than normal for this time of year.

An outbreak of a poultry disease, along with production adjustments because of continued poor market conditions, have caused retail egg prices to fluctuate wildly in recent months, says John Welter, an associate professor of poultry science.

"The outbreak of avian influenza which has resulted in the death of about 10 million birds in the Northeast was definitely a contributing factor," he says.

Some of the chickens died of the disease and others were destroyed in a program to eradicate the disease.

"But the egg industry was already in a period of change when the influenza broke out," says Welter. "Egg prices had been low for several years and many egg producers had been forced out of business."

With prices so low, the remaining producers did not increase output. As the supply tightened, prices began to rise slowly.

Then avian influenza became widespread in Pennsylvania and was also reported in New Jersey and Virginia. In addition to the loss of the actual birds, producers lost the source of a half million dozen eggs per day.

Large Grade A eggs, which sold for 79 cents per dozen at the supermarket last summer, climbed to \$1.45 per dozen around the end of 1983. In recent weeks they have dropped to about \$1.25 per dozen and are likely to remain there for at least six months, Welter says.

"It takes about that long to raise enough birds to substantially increase the supply," he says, so it's doubtful demand will drop much lower since per capita egg consumption is now at, or near, a 40-year low.

Although the egg industry and the U.S. Department of Agriculture have begun an expensive, elaborate program that they hope will eradicate avian influenza before it spreads beyond the Northeast, the shadow of an uncontrolled spread of the disease could destroy all hopes of stabilizing egg production and egg prices in the near future, Welter says.

"Neither producers nor consumers totally control the supply and demand picture for eggs," says Welter, "but both contribute to changes that determine the price."

Orange Aids Station combines security with convenience

Shopping for the Tiger Paw on a baby bottle, golf ball or hammock pillow should be more convenient for you next fall when the Orange Aids Station opens at the football stadium.

The Orange Aids Station should be open in time to help kick off the first football game Sept. 15, says Allison Dalton, assistant athletic director, the opening prompted, in part, by the increasing demand from Clemson fans for school paraphernalia.

When the volume of sales of Clemson paraphernalia skyrocketed after the Tigers became 1981 National Football Champions, the University had to exercise greater control over the use of Clemson's name and symbols, says Dalton.

"There was an influx of promotional people with everything from fishing rods to clocks to shampoo," says Dalton, "and we had to have some way of exercising control over the quality of merchandise bearing our logo."

To have that control, a registered trademark was necessary, whereby products could be officially licensed by the University.

"Since most sales come on game days, says Dalton, "and with the bookstore in a rather remote location from the stadium, we had a tremendous marketing problem. Since there came to be such a significant demand for the stuff, we decided we had to put it where it was accessible."

With the planning of the construction of the second upper deck of the stadium, this seemed to be the right time to solve the problem, he says.

The Orange Aids Station, next to the stadium at Gate 9, faces A Street. Although it is not an integral part of the stadium, the station will be close enough to allow convenient shopping for Clemson souvenirs.

The station will carry the same items you can order from "The Official Clemsonmania Catalog," mailed twice each year, once in the fall and once during the Christmas season, to all alumni, IPTAY members and any other persons who request it.

Paid for with general operating funds of the athletic department, the building will have 6,000 square feet on each of its two levels and will be open year-round from 8 a.m. to 5 p.m.

Public safety department to double office space in the move

In addition to offering all kinds of University "orange aids" on its first
(Continued on page 4.)

(Continued from page 3.)

level, the station will offer another type of aid on the ground or basement level, for that's to become the new headquarters for the public safety department.

Jim Brummitt, acting director of public safety, says the move should result in "better service all the way around for people here at the University."

Lack of space in the department's offices on Klugh Avenue, where the fire department used to be, has caused the department to "borrow" space in other departments.

"Just as an example," says Brummitt, "when a student comes in here with a personal problem, there's no privacy because the 'offices' have nothing but dividers between them and you can hear everything that's going on from one office to another. So we have to go up to the conference room in the physical plant to give that student some privacy."

The public safety department also has had to rely on facilities in the athletic department as a place to provide in-service training for security officers. But the new building will include space for this activity, Brummitt says.

With space for the department doubling over the present 3,000 square feet in its present offices to 6,000 feet in its new offices, there will also be space for a new computerized records-keeping system.

Additionally, the new building will provide space for the traffic office, which handles vehicle registration for employees and students, a court room, and a traffic court room, which are presently set up in makeshift offices.

"I think it'll be a good move for us and for the University," says Brummitt. "I think our service has been good in the past, but I think it will be even better with this move."

Motorola to assist graduate school fellowship program

Motorola Inc. will participate this year in the Industrial Graduate Fellowship Program here, a cooperative industry-university effort to increase graduate school enrollment among United States natives.

The company is giving the University \$3,000 to supplement the traditional \$6,500 paid to graduate assistants and will provide summer employment for the student selected for the fellowship, according to Bill Gatley, manager of mechanical engineering research at Motorola's Ft. Lauderdale, Fla., division.

The fellowship program helps the University keep top engineering grad-

uates in school, which enhances research programs and helps provide future engineering faculty members, says Wayne Bennett, head of the electrical and computer engineering department.

"The current problems in engineering education have been well publicized," Bennett says. "One of the greatest is a critical shortage of faculty to handle burgeoning enrollments."

"Also," he says, "more than half of the graduate students at American uni-

versities are from foreign countries, which creates communications problems in the labs they teach and increases our chance of losing these highly trained engineers to other countries."

In its three-year history, the IGF program has had a significant impact on Clemson's engineering departments, Bennett says. The number of graduate students has increased 53 percent, with the U.S.-born component growing from 48 percent to 63 percent.

University's newest computer will sing you a love song

Watch out, "Ol' Blue Eyes." A talking computer over in the computer center has got your number -- right down to the scobie-dooie-doo's.

The DECTalk voice synthesis system's rendition of "Strangers in the Night" won't make the top forty, but the fact that it will serenade anyone with a Touch-tone telephone demonstrates the Digital Equipment Corp. creation's potential.

What it means is that someday anyone owning a telephone could tap into those department stores of information known as "databases," which are now accessible only to home computer owners.

To test their product and identify potential uses, Digital donated a DECTalk system to the University, and says Richard Nelson, head of academic computing, it will soon be a part of a university-wide information network.

"We're in the preliminary stages of setting up a videotex system on campus where, by using strategically located computer terminals, people would have access to things such as calendars of events, speakers and short courses," he says. "The DECTalk system will allow us to go even further with what we call audiotex."

Nelson plans to take advantage of the system's potential for reaching those people who don't have or won't use computer terminals.

"We've hooked the DECTalk system to a telephone and a computer, so that anyone with a Touch-tone telephone could dial up a number and get the same sort of information they'd get through our videotex network," he says.

Nelson envisions a day when students, employees and visitors could call the computer, listen to an updated recital of events and campus news, and then, by pushing certain buttons on the telephone, ask for more detailed information in such categories as news, weather and sports.

Callers won't hear the monotonous,

mechanical tones they've come to expect from talking computers. By manipulating pitch and tone, Nelson can make the telephone answer male or female, friendly or gruff, questioning or authoritative. He can even make it sing.

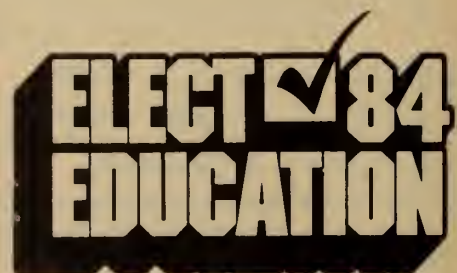
"The reason for using a variety of voices is to help us determine which ones are the most understandable and pleasant," Nelson says. "Also, we thought people might like having a specific voice identified with sports, another with weather, just as it is on the local evening news."

Built-in dictionaries help the computer deal with words that have two meanings, and words that sound alike but are spelled differently. The dictionaries can be tailored for special needs, such as to show the system how to read information from weather services.

"For example, our dictionary shows that the designation '30s' should be pronounced 'thirties,'" Nelson says. "Otherwise, the computer would say, 'Low temperatures will be in the three-zero's.'"

Nelson says DECTalk can be attached to word processor printers so that documents are read aloud as well as typed, or to computer terminals so they'll speak the words as they're entered.

As the devices become more portable, those features could make DECTalk a valuable aid in the home or on the job for people with speech or sight impairments.



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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

April 13-20

EXHIBITS

- 13-30 Ante-bellum women's literature collected by Katherine Bocquet Trescot, Clemson College librarian 1905-1925, and donated by the Class of 1915. Sponsored by R. M. Cooper Library, main lobby. Call 656-3024 for more information.
- 16-20 Architecture Terminal Project and Thesis Reviews. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

FILMS

- 13-14 "Risky Business." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 15 "All the President's Men." Sponsored by University Union, Y-Theatre, 8 p.m. Free with University I.D. Call 656-2461 for more information.
- 19-21 "Flashdance." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 13 Tennis: Trinity, here, men, 2:30 p.m.
- 14 Baseball: Wake Forest, here, 2 p.m.
- 14 Tennis: Princeton, here, men, 2:30 p.m.
- 16 Baseball: Augusta College, here, 2:30 p.m.
- 17 Tennis: Furman, here, men, 2:30 p.m.

CV EVENTS

CV EVENTS are a series of events designed to help you learn more about the CV system and how it can be used to improve your business. The events are held at various locations throughout the country and are open to all interested parties.

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CU EVENTS (Cont.)

OTHER EVENTS

- 13 Band: "Heartfixers." Sponsored by University Union, Edgar's, 9 p.m., \$2. Call 656-2461 for more information.

- 14 12th Annual Tiger Drill Meet. S.C. Junior ROTC units from across the state will hold individual, duet, squad and platoon competitions. Sponsored by aerospace studies and military science departments, Littlejohn Coliseum, 8 a.m.-6 p.m. Open to public. Free. Call 656-3254 or 656-8165 for more information.

- 14 E.I.T. exam: "Fundamentals of Engineering Examination." Open to senior students enrolled at Clemson in an ABET-accredited engineering curriculum who will be candidates for graduation in either May, August, or December 1984, 226 Riggs Hall, 7:30 a.m.-5 p.m. Call 656-3201 for more information.

- 14 Bengal Ball, with the "Spongetones." Sponsored by University Union, gates open at 11 a.m., \$6.75. Call 656-2461 for more information.

- 16 Carolina Journal: Doris Helms, director of the Biology Program, talks about science education in secondary schools. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.

- 16 Short course: "Discovering Natural Foods IV." Sponsored by University Union, 7-8:30 p.m., \$1. Sign up at Union Information Desk, or call 656-2461 for more information.

- 16-20 TAPS distribution, art gallery, University Union. Call 656-2461 for more information.

- 17-18 Seminar: "Latex Technology and Application." Sponsored by Professional Development, Ramada Inn, Clemson. Call 656-2200 for more information.

- 17-18 Dance: "Kinetic Theatre" by the Clemson Dancers. Sponsored by Student Government, Daniel Hall Auditorium, 8 p.m. Free. Call 656-2461 for more information.

- 19 Clemson University Symphonic Band Spring Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.



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Newsletter

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Vol 23, No 32

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

New aquaculture unit formed with state wildlife department

Clemson University has joined with the S.C. Wildlife and Marine Resources Department to form a new research and educational unit to help the state's fledgling aquaculture industry.

Agricultural sciences Dean Luther Anderson will chair the six-member board of the S.C. Aquaculture, Fisheries and Wildlife Co-op, which is based on the land-grant university concept that has helped traditional U.S. agriculture since 1914.

Under the new agreement, says Anderson, certain facilities of the Wildlife and Marine Resources Department will be shared with Clemson for off-campus teaching and research in aquaculture, fisheries and wildlife.

Among these facilities are the new Vaddell Mariculture Center at Beaufort, the Marine Resources Center at Port Johnson, the Dennis Wildlife Center at Moncks Corner, and the Webb Wildlife Center in Jasper County.

The agreement calls for the Extension Service and the Wildlife and Marine Resources Department to split the salaries of an Extension wildlife specialist and an aquaculture and fisheries specialist.

The University already has a wildlife specialist, Lamar Robinette, an associate professor of fisheries and wildlife, who has held that position for nine years. Robinette will serve as Clemson's coordinator of the unit, under the direction of S. B. Hays, entomology, fisheries and wildlife department head.

The aquaculture and fisheries specialist, Thomas E. Schwedler, joined the faculty here April 2. He has worked as an aquaculture and fisheries specialist in Mississippi since 1980.

Anderson says the joint arrangement will fund four graduate research assistantships -- two in wildlife, one in fisheries and one in aquaculture.

Sharing existing facilities and personnel and shifting money from an old

wildlife research program will cost the state very little new money, says Robinette and will allow Clemson and the Wildlife and Marine Resources Department to undertake research and public service work in aquaculture, fisheries and wildlife that neither agency has been able to tackle alone.

"By combining resources," he says, "we can effectively compete for federal, state and private funding for these projects."



Schwedler

Extension gets aquaculture specialist

An aquaculture and fisheries specialist joined the Extension staff this month to begin work with the state's aquaculture industry.

Thomas E. Schwedler will be working primarily through the new S.C. Aquaculture, Fisheries and Wildlife Co-op unit formed by Clemson and the S.C. Wildlife and Marine Resources De-

partment, says Wayne T. O'Dell, Extension director.

A native of Michigan, Schwedler, 32, received his bachelor's degree in wildlife management from the University of Michigan in 1975, his master's degree in aquatic biology from Michigan Technological University in 1977, and his doctorate in fisheries from Auburn University in 1980.

Since 1980 he has worked as an aquaculture and fisheries specialist with the Mississippi State Extension Service.

Schwedler, who will be headquartered here on campus, is one of about 25 persons in the United States recognized by the American Fisheries Society as certified fish pathologists.

"He brings to Clemson expertise in fish health that is essential to South Carolina's growing aquaculture industry," O'Dell said.

President's Council continues to study reorganization

Consider, if you will, the large number of standing committees operating within the University; then consider yourself trying to find a "home" to which each of these committees can report.

Finding homes for those committees is the task facing the President's Council, and much of its meeting March 30 was spent in studying the proposal submitted in February for the reorganization of the University's committee structure.

Harry Durham, executive director of University Relations, reported on the reorganization proposal in the absence of Vice Provost for Undergraduate Studies Jerry Reel, who chaired the special reorganization committee.

The reorganization proposal basically reflects three primary changes, said Durham. First, the recommendations call for each of the vice presidents to head a commission; second, an executive board composed of the University President, the provost and the commission chairmen has been

(Continued on page 2.)

(Continued from page 1.)

added, said Durham, "to help give continuity to matters that arise between meetings of the Council;" and, third, a Commission on Physical Facilities has been added and charged with overseeing the landscape, safety, traffic, and handicap committees and the University Planning Board.

The Physical Facilities Commission and the earlier formation of the Commission on Classified Staff Affairs would increase from six to eight the number of commissions on the Council.

Council seeks home for computer advisory committee

When the floor was opened for discussion on the proposed Council structure, agricultural economics Prof. Larry Bauer, 1984-85 Faculty Senate vice president/president-elect, asked why the Computer Advisory Committee was put under the Commission on Graduate Studies. "This committee," he said, "is of such broad scope it could go under any one of several commissions."

Vice Provost Arnold Schwartz, dean of graduate studies, proposed an amendment to transfer the committee from graduate studies to the proposed Commission on Physical Facilities.

Following some disagreement among Council members about which commission would be most appropriate for the committee, President Bill Atchley suggested that maybe the Council should consider setting up an Advisory Commission for those committees, such as the Computer Advisory Committee, which deal with University-wide issues.

Dean Walter Cox, vice president for student affairs, suggested that perhaps a committee on telecommunications should be set up to which the Computer Advisory Committee could report.

"Telecommunications may be the most important single issue we're facing at this time," said Cox, adding that he thinks it's imperative that the University get committed to perfecting a telecommunications system.

Provost David Maxwell agreed with Cox, saying, "Telecommunications is upon us, and if we don't get in line, we could miss out on some state support."

Several Council members agreed that the development of the telecommunications network, which encompasses voice, data and video transmissions, should be a top priority for the University.

Schwartz then asked that his proposal to switch the Computer Advisory Committee to another commission be referred to the Council's reorganiza-

tion committee for further study of which commission could best handle the broader areas such as computer advising, the library and telecommunications.

President Atchley said the Athletic Council, because of its specialized nature, is another example of a committee that doesn't seem to "fit" under any particular commission.

"I want to assure you that just because you don't see it [on the organizational chart] it's not being left out," said Atchley. "And it's not getting special treatment; it will have to report through some commission."

Next, Council members voiced their concerns about various parts of the constitution. Forestry Prof. Davis McGregor said that, since the Association of Department Heads is instrumental in the organization of the University, he would like the constitution to recognize it as such by allowing department heads to select their own representatives when such representatives are called for on a committee or commission.

Provost Maxwell, agreeing that the association is an official organization and should be recognized, said he plans to send President Atchley a memo to that effect.

Council tables proposed time change in graduation ceremonies

In commission reports, Faculty President Holley Ulbrich said the Marshal's Committee recommended and the Commission on Faculty Affairs endorsed time change in graduation ceremonies from the present 11 a.m. to 10:30 a.m. She moved that the Council endorse this change, but, after several Council members argued that the earlier time would cause a hardship on those traveling a far distance to attend the ceremonies, the amendment was tabled.

Regarding Graduation Day, Atchley called for coordination between the President's Reception (following the ceremonies) and receptions given by the individual colleges.

Commerce and Industry Dean Ryan Amacher said that he thinks the President's Reception is sufficient, and that he thinks the colleges would gladly cooperate in having just that one re-

ception.

Dean of Forest and Recreation Resources Benton Box, reporting for Public Service Commission chairman Luther Anderson, said that commission recommends that every effort be made to update the University's telephone system. According to that commission's report, "the current system is not adequate to handle the volume and the level of technology necessary to conduct programs in an efficient manner."

Jack Wilson, assistant vice president for business and finance, told the Council that the University is working with Bell South to update the system.

Box further reported that liability insurance is now available for staff veterinarians. Lack of this coverage has, in the past, created special problems for veterinarians in the livestock-poultry health division, he said.

Dean Schwartz reported that the Awards Committee of the Commission on Graduate Studies and Research has selected the top 18 nominees for the 1984-85 R. C. Edwards Fellowship Awards. Fifteen of the nominees, he said, are new applicants with an average cumulative GPR of 3.62. Six of the 15 either received or will receive degrees from Clemson, and the remaining nine, he said, represent eight other institutions.

President planning for big Centennial celebration

President Atchley reported to the Council on several items:

-- Plans are underway, he said, to proceed with soliciting an architectural and engineering firm for the development of The Thurmond Center;

-- He has asked the Land Utilization Committee to study the University's forest and agricultural lands to determine how they can best be used for academic and research;

-- Looking toward 1989 and the University's Centennial Celebration, he has appointed a Centennial Committee, he said, to be chaired by Vice Provost Reel. "We're heading toward a big celebration," said Atchley, "and the time to start preparing for it is now."



The Clemson University Newsletter is published for June Kirksey, a custodial worker at Fike Recreation Center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

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CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

April 20-27

LECTURES AND WORKSHOPS

- 23 Lecture: "Understanding Men." Mark Gerzon, lecturer and author, talks about the macho image. Sponsored by Student Government Speakers Bureau, Tillman Hall Auditorium, 7 p.m. Open to public. Free. Call 656-2195 for more information.
- 25 Workshop: "Technical and Business Writing" by Claire O. Caskey, an associate professor of English. Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.

EXHIBITS

- 20-30 Katherine Bocquet Trescot collection of antebellum women's literature donated by the Class of 1915. Sponsored by R. M. Cooper Library, main lobby. Call 656-3024 for more information.
- 25-May 11 Exhibit: MFA Thesis Show. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.

MUSIC

- 20 Marc Regnier, classical guitarist. Sponsored by the American Institute of Architects, Tillman Hall Auditorium, 8 p.m. Admission \$2 for students and \$4 for non-students. Call 656-3081 for more information.
- 25 Clemson University Jazz Ensemble Spring Concert. Sponsored by music department, Tillman Hall Auditorium, 8 p.m. Open to public. Free. Call 656-3043 for more information.

CU EVENTS (Cont.)

FILMS

- 20-21 "Flashdance." Sponsored by University Union, Y-Theatre, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 22 "Coal Miner's Daughter." Sponsored by University Union, 8 p.m., Y-Theatre. Free with University I.D. Call 656-2461 for more information.
- 23 "Ben Hur." Sponsored by University Union, 8 p.m., Y-Theatre. Free with University I.D. Call 656-2461 for more information.
- 26-28 "Octopussy." Sponsored by University Union, 7 and 9:30 p.m., Y-Theatre, 7 and 9:30 p.m., \$1.50 with University I.D. Call 656-2461 for more information.

SPORTS

- 25 Baseball: Georgia, here, 3 p.m.
- 26 Baseball: Erskine, here, 3 p.m.

OTHER EVENTS

- April-May Tennis lessons for adults, beginners and advanced. Sponsored by YMCA, Monday and Wednesday from 6-7 p.m., Tuesday and Thursday from 6-7 p.m. Call 654-2361 for more information.
- 1-30 Summer YMCA day camp registration for children ages 7 to 13. Sponsored by YMCA. For more information call 654-2361.
- 1-30 YMCA Counselor-in-Training Program registration. Sponsored by YMCA. For more information call 654-2361.
- 23 Carolina Journal: Frank Cooke, a professor of bio-engineering, talks about bio-engineering. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 26 "The Reading Band" rehearsal. Sponsored by music department, Holtzendorf YMCA, band room. Open to anyone who plays a musical instrument. Call 656-3308 for more information.

1. The first of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

2. The second of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.

3. The third of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

4. The fourth of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.

5. The fifth of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

6. The sixth of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.

7. The seventh of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

8. The eighth of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.

9. The ninth of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

10. The tenth of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.

11. The eleventh of the year was a very dry one, and the crops were much injured by the drought. The weather was very hot, and the crops were much injured by the drought.

12. The twelfth of the year was a very wet one, and the crops were much injured by the rain. The weather was very cold, and the crops were much injured by the rain.



APR 25 1984

Newsletter

April 25, 1984
Vol 23 No 33

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Economics department names J. Wilson Newman Professor

Cotton Mather Lindsay, research director of the Health Policy Project at the Emory University Law and Economics Center in Atlanta, Ga., has been chosen to hold the J. Wilson Newman Professorship of Managerial Economics.

The appointment, says economics department head Rex Cottle, will be effective beginning with the fall semester, 1984.

Cottle describes Lindsay as "a nationally acclaimed scholar" whose articles are published in the leading journals and who is cited by leading economists every year.

"He's a quality teacher, researcher and communicator," says Cottle, "and I think he will be a great colleague for the other members of our department, for he's what I call a 'doer.' He 'does economics,' and he does it well."

Lindsay, 44, who received his bachelor's in business administration from the University of Georgia and his doctorate at the University of Virginia in Charlottesville, was a professor of economics at the University of California at Los Angeles before going to Emory in 1980.

A Postdoctoral Fellow at the London School of Economics and Political Science and at the Hoover Institution on War, Revolution and Peace at Stanford University, Lindsay also served on the Health Policy Advisory Group to Ronald Reagan and was a member of Reagan's Health Transition Team in 1980.

Cottle says Lindsay will bring a "national reputation" to the economics department. "Just by having him here speaks highly of Clemson University."

The J. Wilson Newman Professorship is endowed by Dunn and Bradstreet in honor of Newman, a past president of the corporation, a Clemson alumnus and a strong supporter of the Clemson Foundation.

"Wilson Newman is probably our most accomplished alumnus in the business world," says Cottle, "and I

think the national stature of Mat Lindsay is most befitting of a professorship in Newman's name."

Newman, who in 1983 received Clemson's highest public recognition, the Clemson Medallion, is now retired and living in Charlottesville, Va., says Cottle.

This professorship is the University's second to bear the Newman name. In 1973 Newman established the Charles Carter Newman Endowed Chair of Natural Resources Engineering in memory of his father, also a Clemson alumnus.

Nursing forum hopes to reduce teen pregnancies

A \$45,698 grant from the Jesse Noyes Foundation will fund an effort in the College of Nursing to address the problem of teenage pregnancies.

With the grant, the College plans to develop a unique Sexuality Forum of workshops, computerized "Sex I.Q." quizzes, board games and discussion groups to take where the teenagers are -- area shopping malls.

The idea is to provide information on all aspects of sexuality, not just conception, that will help teenagers make more responsible decisions.

"Adolescent pregnancy is a major problem in the United States, and is on the rise in South Carolina," says Dee Evers, director of continuing education in the College of Nursing. "In our state it is believed to contribute significantly to the high rate of perinatal mortality, which is the highest in the nation."

In 1981, almost one-fifth of all live births were to mothers 19 or younger, according to the state Department of Health and Environmental Control. More than 200 live births and 144 in-state abortions involved girls younger than 15.

"Pregnancy often poses greater risks for younger mothers, who are still developing themselves," she says. "A teenage mother's pelvis may be too small to deliver a baby normally. She also runs a greater risk of developing toxemia and is less likely to seek prenatal care."

There is also a psychological problem with trying to raise a child alone at a time when the mother is still searching for her own identity.

"From a practical standpoint, teenage pregnancies cost society money," Evers says. "Teenage mothers are not yet fully educated and are unable to support themselves, so they turn to welfare programs. It's a tragic waste of a young person's potential."

The forum will be held at Anderson Mall in the summer of 1985, and Evers hopes the program can later be taken to other counties by participants in the Anderson event.

Plant breeder gets grant to clone sweet potatoes

How sweet it is -- a \$50,000 grant to clone virus-free sweet potato plants.

Bill Rhodes, a researcher at the Edisto Agricultural Experiment Station at Blackville, has been named senior investigator in a cooperative effort between Clemson and the International Board for Plant Genetic Resources.

He, along with two other Clemson plant breeders, Max Hamilton and Roy Ogle, will study sweet potato plant breeding with the goal of eliminating viruses in the plants.

"The sweet potato is one of the most important vegetable crops in the world, ranking sixth or eighth, depending on the authority quoted," says Rhodes.

One problem for plant breeders in exchanging genetic material between countries has been that the sweet potato has traditionally been propagated by roots. Roots take up a lot of shipping space, and they spread viruses that can cause diseases.

Through in vitro culture of cloning,
(Continued on page 2.)

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plant breeders can move large amounts of genetic material in a small package and can eliminate viruses. "The process is relatively simple," says Rhodes. "We will take a small sample of meristomatic tissue -- the tissue which is young, growing and virus free -- and put it in a culture of amino acids, vitamins, agar and growth substances.

"By dividing and redividing the resultant tissue, we wind up with oodles and oodles of little plantlets growing in little test tubes. If we're lucky. If we're lucky they will all be alike."

A post-doctoral candidate will be hired to do the laboratory work, which will be centered here on campus. Plant material from the project will come from the Edisto Station.

So you want to carve waterfowl

Here's your chance to carve out a niche for yourself in the world of waterfowl art. If you're a newcomer to the world of carving, you can try your hand on a green-wing teal; but a more advanced carver may want to attempt the intricacies of a Canada goose.

The industrial education department is offering a three-day seminar on waterfowl carving, and whether you're advanced in the techniques of wood carving or whether you're a beginner, you're welcome to join the seminar, says Gordon Gray, a professor of education and a carver.

The instructor will be Bill Veasey, owner of the Veasey Studios Academy of Carving and the author of "Waterfowl Carving, Blue Ribbon Techniques."

Gray says Veasey has won more than 100 awards for his works, and his carvings can be found in public and private collections worldwide.

The seminar, to be held May 4-6, will run from 9 a.m. to 9 p.m. Friday and Saturday, and from 9 a.m. to 4 p.m. on Sunday.

The cost of the seminar is \$150, and participants should bring their own knives, paints, brushes, foredrom tool and burning systems, says Gray. If you do not have these tools, you may purchase them at the seminar.

"We have a lot of good carvers in the area," says Gray. Although this is the first time the seminar has been offered here, already 17 persons have signed up for the course, and Gray expects the limit on enrollment to be around 25.

The seminar will meet in the industrial education lab in the basement of Godfrey Hall.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

Accountancy

J. A. Kimbell Jr. (Assoc Prof) published "Some Thoughts on Communication" in the Journal of Accountancy (March 1984).

J. R. Davis (Prof and Dir), W. M. Morse (Dir, School of Accountancy, Clarkston College, Ga) and A. H. Hartgraves (Prof, Emory Univ, Atlanta, Ga) published the book Management Accounting, Addison Wesley Publishers (February 1984).

Agricultural Economics and Rural Sociology

The following presented papers at the Southern Agricultural Economics Association meetings in Nashville, Tenn., Feb. 6-8:

-- G. M. Clary (Prof), "Effects of Increased Transportation Costs on Spatial Price Differences and Optimum Locations of Cattle Feeding and Slaughter,"

-- S. E. Miller (Assoc Prof), "Discussion: Methods for Evaluating Economic Efficiency in Agricultural Marketing,"

-- G. J. Wells (Assoc Prof), C. S. Thompson (Prof), and Prof. Miller, "An Examination of the Farm Level Demand for Pecans."

At that meeting B. L. Dillman (Prof) chaired a session on "Land Use and Taxation," and B. H. Robinson (Prof and Hd) chaired an invited papers session.

Prof. Robinson presented "Agricultural Policy: Long Range Problems and Needs" at the N.C. Society of Farm Managers and Rural Appraisers Meeting in Raleigh, N.C., Feb. 23.

Prof. Dillman published "Comment on Frontiers of Nonmarket Valuation" in the proceedings of a regional workshop, "Nonmarket Valuation: Current Status, Future Directions," sponsored by the Southern Natural Resource Economics Committee (May 1983).

Biology Program

D. R. Helms (Prog Dir) conducted a biology workshop for elementary school teachers from Lexington County, District 5 in Columbia, Feb. 20.

C. K. Wagner (Assoc Prof) organized, and he and Helms attended, the spring workshop of the South Carolina Association of Biology Teachers (SCABT) at the Belle Baruch Institute for Marine Biology and the Belle Baruch Forest Science Institute in Georgetown. Wagner, president-elect of SCABT, designed the workshop to improve high school biology teachers' understanding of university research.

S. B. Miller (Assoc Prof) participated in scheduled sessions of the Spring Conference of the Environmental Education Association of South Carolina (EEASC) at Brookgreen Gardens, March 9-10.

W. M. Surver (Assoc Prof), and D. J. Stroup (Asst Prof) presented a student workshop, "What a Science Judge Looks for in a Science Research Project," at the Winter Workshop of the S.C. Junior Academy of Science at Erskine College in Due West, Feb. 4.

At that workshop Prof. Miller and S. Aneja (Instr) officiated a Challenge Bowl session, and A. D. Smith (Instr) assisted with a research tour to the Richard B. Russell Dam.

Chemical Engineering

S. Gupta (Grad Stu), J. M. Haile (Assoc Prof), and W. A. Steele (Prof of Chem, Penn State Univ) published "Representation of Statis Three-Body Correlations in Dense Fluids," in Molecular Physics, 51, 675 (1984).

R. D. Swindoll (Former Grad Stu) and J. M. Haile (Assoc Prof) published "A Multiple Time-Step Method for Molecular Dynamics Simulations of Fluids of Chain Molecules," in Journal of Computational Physics, 53, 289 (1984).

Chemistry

R. A. Abramovitch (Prof) gave the following lectures in the Netherlands:



The Clemson University Newsletter is published for Lisa Harris, recruiting supervisor in the Office of Admissions and Registration, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

-- "Sigmatropic Rearrangements in Heteroaromatic N-Oxides" at the Agricultural University in Wageningen Feb. 15 and at the Duphar Co. (pharmaceuticals and agrochemicals) in Weesp Feb. 17; and

-- "Enium Ions" at the University of Amsterdam Feb. 16 and at the Duphar Co. Feb. 17.

J. W. Huffman (Prof) presented a seminar, "Synthesis of Polyhydroxyarogofurans," at Virginia Polytechnic and State University, March 1.

G. W. C. Hung (Vstg Asst Prof) published a book review, "Microbeam Analysis in Biology" edited by C. P. Lechene and R. R. Warner in *Microchemical Journal*, 29, (1984) 132-36.

J. D. Petersen (Assoc Prof and Assoc Dean Sci) presented a seminar, "Stereochemistry of Transition Metal Complexes by Multinuclear NMR Spectroscopy," at West Georgia College, Carrollton, Ga., Feb. 27.

Prof. Petersen also presented a colloquium talk, "Photochemistry of Transition Metal Complexes," at Auburn University, Feb. 28.

J. S. Thrasher (Prof) published "Reaktionen des (Pentafluorsulfanyl) in Zeitschrift für Anorganische und Analytische Chemie, 507 (1983) 7.

Prof. Thrasher published a paper, "Acylation of Pentafluorosulfanylamine, SF₅NH₂. Part II. Reactions of N-Pentafluorosulfanylcabamylfluoride, SF₅NHC(O)F, and N-Pentafluorosulfanylperfluorosuccinimide, SF₅NC(O)CF₂CF₂C(O)" in the *Journal of Fluorine Chemistry*, 24 (1984) 431.

Computer Science

R. M. Geist III (Assoc Prof) and K. S. Trivedi (Prof, Duke Univ) published "Ultra-high Reliability Prediction for Fault-Tolerant Computer Systems" in *IEEE Transactions on Computers* (December, 1983).

Prof. Geist published "Perception-Based Configuration Design of Computer Systems" in *Information Processing Letters* (January 1984).

Prof. Geist conducted a teacher workshop on microcomputer programming at Morrison Elementary School in Clemson during March and April.

Elementary and Secondary Education

C. R. Freeze (Prof) and S. L. Buckner (Assoc Prof) published "The Length of Time Spent in Student Teaching as a Factor in Student Teachers Performance Evaluations in Teacher Education and Practice, (Spring, 1984) Vol. I, No. 1, 47-50.

Prof. Freeze, Prof. Buckner, E. F. Olive (Prof), and A. D. Brooks (Dir, Ed Serv) presented "The Length of Time Spent in Student Teaching as a Factor in Teacher Performance Evaluation at Clemson University" at the American

Association of College Teacher Educators (AACTE) annual meeting in San Antonio, Texas, Feb. 1-4. The paper will be published in *Eric's Resources in Education*, AACTE 22, 1984.

R. P. Green (Asst Prof) presented "Two Approaches to Teaching Advanced Placement U.S. History" at the College Board Conference on Advanced Placement Courses, at Augusta College, Augusta, Ga., Feb. 15.

Prof. Green published "Reading Guides in Palmetto Focus, Vol. 3, No. 1, (Winter 1984).

Engineering Technology

R. J. Kopczyk (Assoc Prof) presented "High Speed Photography and Its Application in Solving Engineering Problems" to the Piedmont-Carolina section of The American Society of Mechanical Engineers in Charlotte, N.C., March 19.

English

S. Duffy (Asst Prof) published a review of Kenneth Burke's *Dramatism and Popular Arts* by C. Ronald Kimberling in *Communication Education*, 33, No. 1, (1984), 86-87.

S. K. Eisiminger (Assoc Prof) gave a poetry reading to the advanced placement English classes at Chapel Hill High School in Chapel Hill, N.C., March 2.

Prof. Eisiminger published poems in *Arete: The Journal of Sports Literature* (Spring 1984) and *Harvest: A Southern Appalachia Mountains Anthology* (Spring 1984).

Prof. Eisiminger published "Snitching and Responsibility" in *The Trucker*, 2 (Fall 1983).

J. L. Idol Jr. (Prof) organized and chaired a session honoring Blyden Jackson, one of the nation's foremost Black educators, read "A Show of Hands in 'The Artist of the Beautiful,'" and presided at the annual banquet of the Philological Association of the Carolinas eighth annual meeting at the University of North Carolina in Chapel Hill, N.C., March 1-3.

Also at that meeting, R. J. Calhoun (Alumni Prof) chaired the special session "Randall Jarrell: A Seventieth-Year Remembrance;" and R. W. Moran (Prof) presided over the poetry/fiction reading and presented a paper, "Randall Jarrell as Critic of Criticism."

Prof. Calhoun published "James Dickey" in *History of American Literature*, Vol. III: American Writers Since 1900, St. James Press, Chicago and London (1983) 294-296.

E. P. Willey (Assoc Prof) published two poems: "Terminus" in *Parnassus* and "The Moirai" in *Classical Outlook*.

Entomology, Fisheries and Wildlife

T. R. Adkins Jr. (Prof) was invited to participate in a journal workshop and deliver a talk on "Journal Production - Accepted Manuscript to Journal Mailing" at the 48th annual meeting of the Georgia Entomological Society at Jekyll Island, Ga., March 21-23. Prof. Adkins is editor of the *Journal of Agricultural Entomology*.

Prof. Adkins was elected secretary-treasurer of the Southeastern Branch of the Entomological Society of America at their recent meeting in New Orleans, La.

J. W. Foltz (Assoc Prof) was elected president-elect of the South Carolina Fisheries Workers Association at its annual meeting at the Marine Resources Research Institute (SCWMRD) in Charleston, S.C., Feb. 28-29.

T. E. Skelton (Prof) was elected member-at-large to the executive committee of the 11-state Southeastern Branch of the Entomological Society of America at its meeting in New Orleans, La., Jan. 23-26. Prof. Skelton is also a member of the teaching awards and the membership committees of the branch.

J. R. Sweeney (Assoc Prof) served as a session moderator for the 7th Annual Meeting of the Southeast Deer Study Group in Little Rock, Ark., Feb. 26-29.

The following papers were presented at the annual meeting of the Southeastern Branch Entomological Society of America held in New Orleans, La., Jan. 23-26:

-- "Interaction of Iridescent Virus and Nucleopolyhedrovirus in Larvae of *Anticarsia gemmatilis* (Lep.: Noctuidae)" by P. J. Sieburth (Grad Res Asst) and G. R. Carner (Prof);

-- "Developmental Biology of *Mantispa viridis* Walker (Neuroptera: Mantispidae) Under Laboratory Conditions" by J. R. Brushwein (Grad Asst Other) and Prof. Carner;

-- "Influence of Infestation Duration on Southern Corn Billbug Damage to Corn" by J. A. DuRant (Prof);

-- "Velvetbean Caterpillar Management Strategies for South Carolina" by J. W. Chapin (Assoc Prof) and M. J. Sullivan (Prof);

-- "Heliothis zea Mortality from Natural Enemies in Soybean" by S. G. Turnipseed (Prof), Prof. Carner and Prof. Sullivan;

-- "Ambrosia Beetles: A Potentially Serious Pest of Peaches" by C. S. Gorsuch (Assoc Prof) and J. Kovach (Grad Res Asst);

-- "Biology and Seasonal Distribution of Two Ambrosia Beetles Found on Peaches" by Joe Kovach (Grad

(Continued on page 4.)

(Continued from page 3.)

Res Asst) and Prof. Gorsuch;

-- "A Preliminary Look at the Attitudes of South Carolina Residents Toward the Imported Fire Ant" by L. A. Lemke (Grad Res Asst) and J. B. Kissam (Prof);

-- "Spring Relapse, Epizootiology and Suppression of Leucocytozoonosis in Turkeys" by Steve Horosko (Grad Res Asst) and R. Noblet (Prof);

-- "The Potential of the Black Dump Fly, *Ophyra aenescens* (Wiedemann) as a Synanthropic Pest Resulting From Its Breeding in Environmental-type Poultry Houses" by M. P. Nolan III (Grad Ext Asst) and Prof. Kissam;

-- "Influence of Edaphic Factors on Emergence of the Pecan Weevil" by D. R. Alverson (Assoc Prof);

-- "Feeding Strategies in the Aquatic Scene: Trichoptera" by J. S. Weaver, III (Former Grad Stu) and J. C. Morse (Prof);

-- "Development of the Parasitoid, *Pediobius foveolatus* in Mexican Bean Beetles Reared on Susceptible and Resistant Soybean Lines" by B. A. Dover (Former Grad Res Asst), Prof. Noblet, R. F. Moore (Adj Prof) and M. Shepard (Prof);

-- "Palexorista laxa on Heliothis spp.: Laboratory and Field Cage Studies" by J. F. Grant (Vstg Asst Prof), A. W. Johnson (Prof), Prof. Shepard and J. E. Powell (ARS, USDA, Stoneville, Miss.);

-- "Laboratory Evaluation of Inter-specific Competition Between Indigenous (*Meterus autographae*) and Imported (*Microplitis demolitor*) Parasitoids" by J. F. Grant (Vstg Asst Prof) and Prof. Shepard;

-- "Predatory Capabilities of *Calleida decora* and *Lebia analis* (Coleoptera: Carabidae: lebiini)" by R. E. McWhorter (Ag Sci Assoc II), J. F. Grant (Vstg Asst Prof) and Prof. Shepard;

-- "Host Plant Resistance to Australian Soybean Pests" by D. J. Rogers (Grad Res Asst);

-- "Techniques for Evaluating Predators for Control of Insect Pests" by Grant;

-- "Determination of the Red Imported Fire Ant, *Solenopsis invicta* Buren, Subterranean Foraging Network and Mound Interrelationships" by D. W. Byron (Grad Asst Other) and S. B. Hays (Head and Prof);

-- "The Tobacco IPM Program in South Carolina, 1979-83" by D. G. Manley (Assoc Prof);

-- "The Boll Weevil Eradication Program in South Carolina" by M. Roof (Asst Prof);

-- "A Comparison of Two Traps for Capturing the German Cockroach, *Blattella germanica* (L.)" by P. A.

Zungoli (Asst Prof) and W. H. Robinson (VPI); and

-- "The Reduced Pesticide Program for Peaches in South Carolina" by Prof. Gorsuch.

The following papers were published in the Proceedings of the 35th Annual Conference of Southeastern Association of Fish and Wildlife Agencies:

-- "Helminth Parasites of American Eels From Brackish Water," Vol. 35: 355-364 by J. S. Crane (Former Grad Asst) and A. G. Eversole (Assoc Prof);

-- "Toxicity of Mirex to Postlarval and Juvenile Freshwater Prawns," Vol. 35: 387-494 by C. A. Aas (Former Grad Asst) and Prof. Eversole;

-- "Distribution of Spawning Blueback Herring on the West Branch of Cooper River and the Santee River, South Carolina," Vol. 35: 632-640 by R. W. Christie (Former Grad Asst), P. T. Walker (Former Grad Asst), Prof. Eversole, and T. A. Curtis (Res Assoc); and

-- "Water Quality and Phytoplankton in Dairy Farm Ponds," Vol. 35: 512-515 by T. A. Wilson (Former Grad Asst) and J. W. Foltz (Assoc Prof).

Environmental Systems Engineering

A. R. Abernathy (Prof), G. L. Larson and R. C. Matthews (Nat Park Serv) published "Heavy Metals in the Surficial Sediments of Fontana Lake, North Carolina" in *Water Research*, 18, (1984) 351-354.

R. A. Fjeld (Assoc Prof), R. M. Johnson (Gulf States Utilities) and A. R. McFarland (Texas A&M Univ) published "Effect of Gas Composition on the Response of a Thick-Source Alpha Particle Gas Densimeter" in *Review of Scientific Instruments*, 55, (February 1984) 244-249.

C.P.L. Grady Jr. (R. A. Bowen Prof) gave an invited address, "Integrating Approaches to Biodegradation -- An Engineer's Viewpoint," at a roundtable, "Integrating Approaches to Biodegradation," at the 84th Annual Meeting of the American Society of Microbiology in St. Louis, Mo., March 4-9.

Finance

R. B. McElreath Jr. (Assoc Prof) received an Ayres Fellowship for the 1984 resident session of the Stonier Graduate School of Banking at Rutgers University.

Prof. McElreath and C. D. Wiggins (Assoc Prof) published "Using the Compustat Tapes in Financial Research: Problems and Solutions" in the *Financial Analysts Journal* (January/February 1984).

G. S. Sirmans (Asst Prof) has had the following papers accepted for publication:

-- "The Shifting of FHA Discount Points: Actual vs. Expectations" in the *American Real Estate and Urban Eco-*

nomics Association Journal with S. D. Smith (Emory Univ, Atlanta, Ga).

-- "Cash Equivalency Valuation for Creative Financing Methods" in *The Appraisal Journal* with Smith and C. F. Sirmans (Louisiana State Univ).

Food Science

J. C. Acton (Prof) presented a paper, "New Directions in Restructured Poultry Meat Products," at the Midwest Poultry Federation in Minneapolis, Minn., Feb. 29-Mar. 2.

The food science department celebrated National Nutrition Month in March by presenting three seminars:

-- "Are We Well Fed?" by Luise Light, consultant for the National Cancer Institute and the Public Relations Firm of Jackson, Flash, Sumner and Associates and previously the director of Nutrition Guidance in Educational Research for the Human Nutrition Information Service (USDA);

-- "Heart Disease: How Can We Prevent It?" by James Keith, associate dean of the College of Health, University of South Carolina and previous co-principal investigator for the Multiple Risk Factor Intervention Trial; and

-- "Nutrition for the Athlete -- Recreation to Elite" by Ann Grandjean, associate director of the Swanson Center for Nutrition at the University of Nebraska Medical School, Omaha, Neb.

The following papers were presented at the meeting of the Southern Association of Agricultural Scientists in Nashville, Tenn., Feb. 5-8:

-- "Relationships of Heat Treatment Trypsin Inhibitor and In Vitro Protein Digestibility in Legumes" by Prof. Acton;

-- "Relationship of Calvary Concentration of Na, K, Ca and Mg to Taste Acuity" by R. F. Borgman (Prof);

-- "In-vitro Digestibility of Proteins in the Presence of Dietary Fiber Constituents" by L. M. Breyer (Grad Asst);

-- "The Influence of Synthesized Hard Water Upon Lipid and Mineral Metabolism in Rabbits" by L. P. Porter (Grad Asst);

-- "Effect of Philate and Phenolics Upon the In vitro Digestibility of Soy Proteins" by M. A. Ritter (Grad Asst);

-- "Analysis of the Non-protein Nitrogen Fraction in Fermented, Dry Sausage and Nonfermented Sausage" by T. DeMasi (Grad Asst);

-- "Gelation Properties of Whey Protein Concentrates Prepared by Spherosil-QMA Anion Exchange Chromatography" by C. M. Barker (Grad Asst);

-- "A New Method for Thermal Processing Evaluation in Retortable Pouches" by S. Tandon (Grad Asst); and

-- "Fermentation Temperature Effects on Microflora and Composition

of Dry Sausage" by P. Price (Grad Asst).

Also attending this meeting were C. V. Morr (Prof), R. L. Thomas (Asst Prof) and Bonnie Bowie (Grad Asst).

History

L. J. Greenspoon (Assoc Prof) reviewed Moises Silva, *Biblical Words and Their Meaning: An Introduction to Lexical Semantics*, in *Religious Studies Review* 10 (1984).

T. Kuehn (Asst Prof) has received an Andrew W. Mellon Fellowship for research this summer at the Vatican Film Library at St. Louis University.

Housing



Sue Helen Davis of Clemson received the Custodian of the month award for February. She has been with the Housing Office since 1973.

V. Howell (Assoc Dir) and C. Shockley (Area Coord) presented a program, "Programming in Residence Halls," at the 20th Annual Conference of the Southeastern Association of Housing Officers in Nashville, Tenn., in February.

Other housing officers attending that conference were G. Gaulin (Asst Dir), B. Zettle (Staff Asst), E. Singleton (Supt, Cust Serv) and A. R. Boettner (Dir). Boettner began her term as 1985 president, the first woman to hold this position in the 20-year history of the association.

Industrial Education

W. E. West (Prof) has been selected to participate in the 1984 NPES/GATF Teacher Institute to be conducted by the Graphic Arts Technical Foundation Aug. 6-17. The National Printing Equipment and Supply Association (NPES) has provided GATF a grant that allows this institute to provide state-of-the-art information to educators throughout the United States.

Industrial Engineering

C. R. Lindenmeyer (Prof) presented an invited paper, "Computer-Aided Work Sampling: An Approach to Indirect Labor Cost Reduction," at the Automated Manufacturing 1984, International Conference and Exhibition at Textile Hall in Greenville, March 22. R. Nelson (Lect, Comp Ctr) assisted in the demonstration of MICRO-CAWS, a microcomputer-based work sampling data analysis and reporting system.

Prof. Lindenmeyer gave two presentations, "Developing Labor Time/Cost Formulas Using Stepwise Multiple Regression Analysis" and "Computer-Aided Work Sampling: A Mainframe and Microcomputer Based System for Controlling and Reducing Indirect

Labor Costs," at the National Conference of the Association of Textile Industrial Engineers in Atlanta, Ga., March 23.

Languages

M. Cranston (Assoc Prof) received a \$3,000 stipend from the National Endowment for the Humanities for independent research in contemporary poetry and painting in Paris and Southern France this summer.

J. A. McNatt (Asst Prof) read a paper, "From Summer Light to Dirty Tricks: Jean Gremillon and Roger Vailland," at the Southeastern Conference on Romance Languages and Literatures at Rollins College in Winter Park, Fla., March 1-3.

Prof. McNatt was a delegate from the South Carolina chapter of the American Association of Teachers of French (AATF) to the Annual Convention of the AATF in Lille, France, in June. She also attended the post-convention workshop in Paris.

R. Willingham (Instr) presented "Foreign Language Requirements at Black Colleges and Universities (1974-1984): Past, Present and Future Implications," and chaired the session "Aime' Cesaire--La Negritude" at the Southern Conference on Afro-American Studies in Jackson, Miss., Feb. 24.

Library

M. F. Kohl (Hd, Spec Col) published "Managing Municipal Tape Recordings: Recommendations and Procedures" in *Records Management Quarterly* 17, (October 1983) 32-40.

B. A. Reuland (Prog Anlyst) published "Successive Entry: Another Look" in *Serials Review* 9/3, (Fall 1983) 92-93.

Management

W. H. Hendrix (Assoc Prof), and N. K. Ovalle and R. Steel (Assoc Profs, Air Force Inst of Tech) had a paper, "The Effects of Occupational Stress on Physical and Mental Health: Differences Between Men and Women in a Public Sector Organization," accepted for presentation at the 1984 Academy of Management meeting in Boston, Mass., in August.

J. M. McDonald (Assoc Prof) and R. Robinson (Asst Prof, Mngmt, USC) wrote a paper, "A Study of the Impact of S.C. Small Business Development Centers on Small Business in S.C.," which was presented at the Small Business Institute Director's Association (SBIPA) in Denver, Colo., Feb. 17-19.

Prof. McDonald (Assoc Prof) published "Conflict Management: Causes and Resolution" in the *Human Resources Quarterly*, Vol. 3, 1 Qtr., 1984.

T. W. Zimmerer (Prof) presented a paper, "Leading and Managing Human Resources," at the Thirteenth Annual

South Carolina State Highway Conference which met here March 7.

Prof. Zimmerer gave an address, "Improving Managerial Productivity," at the Annual Clemson Symposium on Current Technology in Spinning and Yarn Preparation March 6.

Prof. Zimmerer, J. W. Patterson (Assoc Prof) and R. M. Daniels (CIBA-GEIGY) published "Understanding Power, Decision Making, and the Middle Manager" in *The Mid-South Business Journal* Vol. IV, No. 1 (January 1984).

Prof. Zimmerer gave a talk, "Effective Management of Pulpwood Crews," at a meeting of the American Pulpwood Association in Clemson.

Mathematical Sciences

The following papers were presented at the Fifteenth Southeastern Conference on Combinatorics, Graph Theory and Computing at Louisiana State University in Baton Rouge, La., March 5-8:

-- "Max and Min Relationships of Disconnected Colorings" by W. R. Hare (Prof), R. Laskar (Prof) and K. Peters (Grad Stu);

-- "Coronation Numbers of Trees" by R. E. Jamison (Prof) and M. W. White (Grad Stu);

-- "Posets Described by Their Bound Sets" by J. K. Luedeman (Prof) and F. R. McMorris (Bowling Green State Univ);

-- "On Hamiltonian Cycles in Cycle Permutation Graphs" by B. Piazza (Grad Stu);

-- "Generalized Gallai Theorems" by Laskar, S. T. Hedetniemi (Comp Sci Dept) and E. J. Cockayne (Univ of Victoria);

-- "The Amida Number of a Graph" by R. D. Ringeisen (Prof and Assoc Hd) and L. Orton (Former Grad Stu);

-- "Algebraic Aspects of Reliability Problems" by D. R. Shier (Prof); and

-- "Domination Algorithms on Series-Parallel Graphs" by J. Pfaff (Grad Stu) Laskar and Hedetniemi.

J. Brawley (Alumni Prof) gave an invited lecture, "The Gambler's Ruin," at Furman University's Eighth Annual Mathematics Bowl in Greenville March 10. Brawley gave a lecture to the Furman Chapter of the Mathematics Honorary Society Pi Mu Epsilon, March 9.

R. Fennell (Assoc Prof), S. Black (Former Grad Stu) and J. A. Reneke (Assoc Prof) gave a paper, "Control Coordination for Interacting Systems," at the Society for Industrial and Applied Mathematics and Southeastern Atlantic Section Joint Meeting (SIAM-SEAS) in Gainesville, Fla., March 12-13.

Also at that meeting, G. Forney (Grad Stu) won a cash prize for the best student paper, "Attenuation Func

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tions for the Fourier Transform."

J. Kenelly (Prof) chaired a meeting of the College Board's Mathematical Sciences Advisory Committee in New York, N.Y., March 1-4. At that meeting key mathematics educators previewed the mathematics subject matter statements which the Board is preparing for future release in its Educational Equality Project.

Prof. Kenelly directed a workshop for advanced placement mathematics teachers in Winter Park, Fla., March 8. The program was sponsored by the College Board and the Florida State Department of Education.

Prof. Kenelly has been invited by the Mathematical Association of America to serve a two-year term on the National Panel of Visiting Lecturers and to serve a two-year term on the National Panel of Curriculum Consultants.

J. Nedelman (Asst Prof) published a paper, "A Negative Binomial Model for Sampling Mosquitoes in a Malaria Survey," in *Biometrics* (December, 1983).

Prof. Nedelman gave a talk, "Testing Epidemiological Models," at the winter meeting of the Piedmont Consortium of the American Statistical Association in Commerce, Ga.

S. M. Lukawecki (Prof and Dir of Undergrad Affrs) served on the Southern Association Visiting Committee that evaluated Batesburg-Leesville High School Feb. 12-15.

W. H. Ruckle (Prof) gave two seminars in March: "Pursuit on a Cyclic Graph" at the National Institute for Higher Education in Limerick, Ireland; and "Absolutely Divergent Series and Classes of Banach Spaces" in Cambridge, England.

Mechanical Engineering

J. Gorree (Prof) presented seminars on composite materials at the Office of Naval Research in Arlington, Va., March 21 and at NASA-Langley Research Center in Hampton, March 22.

V. Prasad (Vstg Asst Prof) and F. A. Kulacki (Prof, ME, Univ of Del) published the following articles:

--"Natural Convection in a Vertical Porous Annulus" in *International Journal of Heat and Mass Transfer*, Vol. 27 (February 1984) 207-213;

--"Natural Convection in a Rectangular Porous Cavity With Constant Heat Flux on One Vertical Wall" in *ASME Journal of Heat Transfer*, Vol. 106 (February 1984) 152-157; and

--"Convective Heat Transfer in a Rectangular Porous Cavity -- Effect of Aspect Ratio on Flow Structure and Heat Transfer" in *ASME Journal of Heat Transfer*, Vol. 106, (February 1984) 158-165.

--C. E. G. Przirembel (Prof and

Hd) and J. L. F. Porteiro and R. H. Page (Texas A&M Univ) published a paper, "Near Wake Velocity Profiles," ASME Paper 84-FE-6, which was presented to the Fluids Engineering Division at the 7th Annual Energy-sources Technology Conference in New Orleans.

Nursing

E. M. Baines (Asst Prof) presented "Stress in the Family Caregiver of the Disabled Older Adult" during a conference of physicians in the residency program at the Family Practice Clinic in Anderson Feb. 22. The conference was part of Anderson Memorial Hospital's Postgraduate and Continuing Education program.

Parks, Recreation and Tourism Management

R. H. Becker (Assoc Prof) and F. D. Dottavio (Adj Assoc Prof) published "Encroachments to the National Park, Assessing the Impacts" in *Technical Report, U.S.D.I., National Park Service, Southeast Region* (December 1983).

Prof. Becker published "Cooperation and Imagination: A Strategy for Research Management" in *Catalyst: for Environment and Energy*, (January-February 1984).

Prof. Becker, G. W. Burnett (Assoc Prof) and A. Jubenville (Univ of Alaska) published "Fact and Judgment in the Search for a Social Carrying Capacity" in *Leisure Sciences*, 6:4.

F. A. McGuire (Asst Prof) had an article, "A Factor Analytic Study of Leisure Constraints in Advanced Adulthood," accepted for publication by *Leisure Sciences*.

Prof. McGuire had an article, "Improving the Quality of Life in Long-term Care Facilities Through Video Games," accepted for publication in *Activities, Adaptation and Aging*. The research reported in the article was supported through a University Faculty Research Grant.

Prof. McGuire and C. Bulloch (Univ N.C. at Chapel Hill) published "Accessibility Applies to More Than Just Buildings" in *Grounds Maintenance* (March 1984).

B. J. Mihalik (Asst Prof) received a \$12,985 grant from the Department of the Interior, Southeast Regional Office of the National Park Service to conduct a wildlife management skills training course for 22 National Park Service rangers.

Prof. Mihalik had an article, "Practitioner Identified Technical Assistance Needs for Community Leisure Service Agencies," accepted for publication by the *Journal of Park and Recreation Administration* (January 1984).

J. A. Stevenson (Prof and Dir of Honors Prog) gave a workshop, "Personal and Professional Development," as

part of the Southern Regional Forum on Innovative Programming sponsored by the Georgia Park and Recreational Society and the National Recreation and Park Association in Rock Eagle, Ga., Feb. 23.

Physics and Astronomy

P. B. Burt (Prof and Hd) and H. E. Vogel (Dean) were invited participants in the NASA Education Conference in Orlando, Fla., Feb. 1-3.

J. P. McKelvey gave a lecture, "General Results Involving Anharmonicity in One-Dimensional Systems," to the physics department at Auburn University in Auburn, Ala., Feb. 24.

R. C. Turner (Assoc Prof) was an invited workshop leader for the "Workshop of the Committee on Science for the Public: The Physics of Toys" at the joint meeting of the American Association of Physics Teachers and the American Physical Society in San Antonio, Texas, Jan. 31.

Plant Pathology and Physiology

L. W. Baxter Jr. (Prof) and S. G. Fagan (Ag Sci Asst) published "The Need for Fall-Flowering Camellia Japonica Cultivars" in *Carolina Camellias*, Vol. XXXVI(1) (Winter, 1984) 6-8.

Prof. Baxter and Fagan published "The Response of Camellia Japonica to Gibberellic Acid Application" in the *American Camellia Journal*, Vol. 39(1): (February, 1984).

G. E. Carter Jr. (Assoc Prof), J. T. Ligon (Prof, Dept of Ag Engr) and M. B. Riley (Ag Sci Assoc) published "DBCP Residue Studies in Soil and Well Water From Two South Carolina Peach Orchards" in *Water, Air, and Soil Pollution* 22: (February, 1984) 201-208.

B. A. Fortnum (Asst Prof), J. P. Krausz (Assoc Prof, Pee Dee Rsch and Ed Ctr), and N. G. Conrad (Ag Chem Servs) published "Increasing Incidence of Meloidogyne Arenaria on Flue-Cured Tobacco in South Carolina" in *Plant Disease*, Vol. 68(2), 244-245.

E. C. Lawson III (Former Grad Res Asst), G. E. Carter Jr. (Assoc Prof) and S. A. Lewis (Prof) published "Application of Isoelectric Focusing to the Taxonomic Identification of Meloidogyne spp." in *Journal of Nematology* 16(1) (1984) 91-96.

B. B. Reddick (Former Grad Res Asst) and O. W. Barnett (Prof) published "A Comparison of Three Potyviruses by Direct Hybridization Analysis" in *Phytopathology* 73(11), 1506-1510.

W. Witcher (Prof) presided over the session, "Bacterial Diseases," at the Eighty-First Annual Meeting of the Southern Association of Agricultural Scientists in Nashville, Tenn., Feb. 5-8.

At that meeting, Prof. Witcher pre

sented "Epidemiology of Powdery Mildew of Wheat, Caused by *Erysiphe graminis* F. sp. *tritici*, in South Carolina in 1983" written by G. C. Kingsland (Assoc Prof).

Graduate research assistants gave the following reports at the Southern Division, American Phytopathological Society Meeting and Southern Association of Agricultural Scientists Meeting in Nashville, Tenn., Feb. 5-8:

-- "Role of Ice-nucleating (INA) Bacteria in Frost Injury of Peach Flowers in South Carolina" by E. M. Bentley;

-- "An Interaction Between *Meliodogyne incognita* and *Hoplolaimus columbus* on the Susceptible Soybean 'Davis'" by D. W. Guy Jr.;

-- "A Blackeye Cowpea Mosaic Virus Strain From South Carolina" by J. F. Murphy; and

-- "Viruses of Bell Pepper (*Capsicum annum*), Eggplant (*Solanum melongena* L.3/4 and Tomato (*Lycopersicon esculentum*) Found in South Carolina" by A. Yilma.

Political Science

C. W. Dunn (Prof and Hd) gave a talk on "1984-Mandate for National Leadership" at the 15th Annual Student Symposium of the Center for the Study of the Presidency in Washington, D.C., March 22-25.

Psychology

R. W. Moran and K. M. Zabrocky (Vstg Asst Prof) presented "Implausible and Indirect Antecedents: Effects on Sentence Comprehension" at the 30th anniversary meeting of the Southeastern Psychological Association in New Orleans, La., March 29-31.

Also at this meeting, Prof. Zabrocky and H. H. Ratner (Wayne State Univ) presented "Development of Comprehension Monitoring Ability: Evidence From 'Slow Ups' and 'Look Backs' During Reading."

Publications and Graphics Services

B. R. Cheney (Dir) has been selected to participate in the 1983 Case Forum for Women and Minority

Institutional Advancement Officers in Washington, D.C., May 7-8.

Cheney has been appointed to the District III Board of the Council for Advancement and Support of Education (CASE) and to the editorship of the CASE Newsletter.

Student Life

K. Brague (Assoc Dean) and T. Evans (Asst Dean) represented Clemson at the annual conference of the National Association of Student Personnel Administrators (NASPA) in Louisville, Ky., March 18-21.

Brague represented Clemson at the Second South Carolina Conference on Alcohol and Drug Problems on the College Campus at the College of Charleston April 4-6.

Evans presented a program, "A Key Ingredient to a Successful Rush -- Rush Counselors," at the annual Southeastern Panhellenic Conference at the University of Georgia in Athens, Ga., April 7.

APR 25 1994

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

April 27-May 4

EXHIBITS

- 27-30 Katherine Bocquet Trescot collection of antebellum women's literature donated by the Class of 1915. Sponsored by R. M. Cooper Library, main lobby. Call 656-3024 for more information.
- 27-May 11 Exhibit: MFA Thesis Show. Sponsored by College of Architecture and Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-Friday 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Call 656-3081 for more information.

FILMS

- 27-28 "Octopussy." Sponsored by University Union, Y-Theatre, 7 and 9:30 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 29 "The Graduate." Sponsored by University Union, Y-Theatre, 8 p.m., free with University I.D. Call 656-2461 for more information.

OTHER EVENTS

- April-May Tennis lessons for adults, beginners and advanced. Sponsored by YMCA, Monday and Wednesday from 6-7 p.m., Tuesday and Thursday from 6-7 p.m. Call 654-2361 for more information.
- April 1-30 Summer YMCA day camp registration for children ages 7 to 13. Sponsored by YMCA. For more information call 654-2361.
- 1-30 YMCA Counselor-in-Training Program registration. Sponsored by YMCA. For more information call 654-2361.
- 28 Graduate Record Exam. Sponsored by Counseling and Career Planning Center. Martin Hall, 8 a.m.-5:30 p.m.
- 30-May 5 Examinations.

ON EVIDENCE

THESE ARE THE RULES OF EVIDENCE FOR THE TRIAL OF A CASE IN THE SUPREME COURT OF THE STATE OF NEW YORK.

ARTICLE I

SECTION 1. The rules of evidence shall be the same in all cases, whether civil or criminal, and shall be the same in all courts of the State.

SECTION 2. The rules of evidence shall be the same in all cases, whether civil or criminal, and shall be the same in all courts of the State.

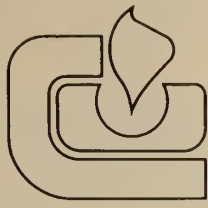
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SECTION 4. The rules of evidence shall be the same in all cases, whether civil or criminal, and shall be the same in all courts of the State.

CU EVENTS (Cont.)

- 30 Carolina Journal: Claire Caskey, an associate professor of English, talks about the "Art of (Mis)communication." Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- May 1 Early bird sign-up deadline for World's Fair Trip Spectacular. Sponsored by Clemson University Travel Center. Four-day and three-night trip to New Orleans includes: accommodations at Tulane University (motel style rooms), round-trip transportation on modern air-conditioned bus, one or two-day ticket to the World's Fair, an optional tour of the city and a riverboat cruise. Cost, \$159-189 with \$25 deposit required. Call 656-2461 for more information.
- 1-3 Workshop: "Local Area Networks." Sponsored by Continuing Engineering, 302 Rhodes Hall. Call 656-3308 for more information.
- 11 Deadline for 1984-85 football and soccer ticket applications to be returned to the athletic ticket office. For more information call 656-2101.

The first part of the document is a letter from the Secretary of the
Board of Directors to the shareholders. It is dated the 1st of January
1900. The letter is addressed to the shareholders of the
company and is signed by the Secretary. The letter contains
information about the company's affairs for the year 1899.
The second part of the document is a report from the
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Newsletter

MAY 9 1984

May 2, 1984
Vol 23, No 34

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Five of six candidates earn Fulbright Scholarships

Five out of six Clemson students recommended for Fulbright Scholarships will be studying abroad next year under the prestigious program, and the sixth is still waiting to hear if it'll be 100 percent.

The fact that all six nominees made the semifinals -- that is, received formal recommendations for scholarships from the Fulbright Foundation -- already puts Clemson at the head of a fairly impressive class.

"That's a phenomenal percentage. Not even Yale and Harvard had that kind of ratio," says Georgette Gelorini, spokesperson for the Foundation. "I can't say that it's a record for sure, but I've never heard of a school having a 100 percent recommendation rate. And if Clemson ends up with six Fulbrights out of six nominees, that will be extremely unique."

The Fulbright Scholars program, created in 1947, is an international student exchange program that aims to promote mutual understanding between Americans and citizens of other nations. The grants permit scholars to spend two to 10 months studying abroad. Some 800 awards will be granted worldwide this year by the Council for International Exchange of Scholars, funded through the U.S. Information Agency.

Clemson's Fulbright Scholars are: Annette House, a textile chemistry major; Nancy Snow, a political science major; Kathy Heinsohn, a zoology major; Deborah Savage, a chemical engineering major; and Russell Caldwell, a history major. All five have received Fulbright grants to study in Germany.

Meanwhile, Kathryn Cole waits to

hear if her French teaching assistantship has been approved. The foreign language major may not hear until June, says Jack Stevenson, director of the honors program, because the French program is "traditionally later in announcing the awards."

Biologist gets Guggenheim Fellowship

A professor in the biological sciences department has been awarded a Guggenheim Fellowship for 1984, marking the first time a Clemson faculty member has been so honored.

The fellowship will allow Prof. John Wourms to take a one-year sabbatical to devote to his research on the embryonic development of fish. He will conduct the research primarily in laboratories at the University of Queensland in Australia, at Harvard University, and at the universities of Colorado and California.

For 60 years the John Simon Guggenheim Foundation has been promoting research and the practice of the arts through awards to U.S. scholars.

"The fellowships are awarded on the basis of demonstrated accomplishment in the past and strong promise for the future," according to Foundation president Gordon Ray. Recipients may spend the grant as they choose.

Grants totaling more than \$5.5 million have been awarded to 283 scholars for 1984 -- out of 3,542 applicants. Less than 5 percent of the grants were in the field of biological sciences.

During his fellowship, which begins in May, Wourms will use electron microscopy and experimental methods to study cell movements during early embryonic development of sharks, skates, and the Australian lungfish and to study embryonic nutrition in live-

bearing fishes.

Wourms says he's concentrating on fishes because they are the oldest vertebrates on earth and the group from which all higher vertebrates evolved.

Wourms has been at Clemson since 1976. Before that, he was at McGill, Harvard and the Ocean Science Laboratory.

He has conducted field research in Charleston, the West Indies Lab at St. Croix, the U.S. Virgin Islands, Bodega Marine Laboratory at the University of California at Berkeley, the Indian Ocean, the East African Fresh Water Fisheries Research Institute in Uganda, and the Caribbean Marine Biological Station in Curacao.

A graduate of Fordham University, he received his doctorate in biology from Stanford University and did post doctoral work at Harvard.

Yandle leaves FTC, receives Alumni Professorship

When Bruce Yandle returns this summer from Washington, D.C., where he has served a two-year term as executive director of the Federal Trade Commission, he will have a nice welcome-home present -- an Alumni Professorship of Economics.

Alumni professorships, supported by funds from the Clemson Alumni Association, are awarded to professors who excel in undergraduate teaching.

In naming Yandle to the professorship, President Bill Atchley said, "I consider it (the professorship) one of the most worthwhile activities of the Alumni Association because it helps the University to reward outstanding teachers in a way that could not otherwise be done. Your dedication to teaching and to the welfare of your students eminently qualifies you for this recognition."

Economics department head Rex Cottle says student evaluations of Yandle "consistently put him at the top. I can honestly say that I have not seen a 'bad' student evaluation for Dr. Yandle."

(Continued on page 2.)

Faculty, staff meet May 10

Mark May 10 on your calendar for a general faculty-staff meeting. It's the usual place, Tillman Hall Auditorium, and the usual hour, 10 a.m.

(Continued from page 1.)

In the last six years Yandle was at Clemson, says Cottle, he had taught six different undergraduate economics courses and two different graduate courses, while serving as department head for a part of that time.

Yandle has the reputation, says



Yandle

Cottle, "of turning courses around."

"He has been assigned to courses with low enrollments and made them successful."

As executive director of the FTC, Yandle was responsible for the management of operations, including budget and finance, and for overseeing the Commission's 10 regional offices. He also coordinated the intervention program in which the agency testifies and provides comment on newly proposed rules and legislation.

Yandle, 50, is a native of Lyons, Ga. He received his bachelor's degree in economics from Mercer University and his master's and doctorate from Georgia State University.

Before entering graduate school, he pursued a business career, working in various management and sales posi-

tions for 15 years. He was executive vice president of an industrial products distribution firm when he left to begin graduate studies.

Yandle came to Clemson in 1972, and in 1976 he took a year's leave to become senior economist on the President's Council on Wage and Price Stability.

He is an adjunct scholar with the American Enterprise Institute in Washington, D.C. -- one of 60 scholars in the nation to hold this title -- and he is a member of the AEI Regulation Advisor Board.

(For a more detailed story on Prof. Yandle, see the May issue of Clemson University News.)

Academic heads organization recognized

On a recommendation from Provost David Maxwell, President Bill Atchley has approved the official recognition of the Organization of Academic Department Heads.

The organization, said Maxwell, has a two-fold purpose. First, it serves as a forum for communication between the academic department heads and the administration, the Faculty Senate, the Council of Deans, the President's Council, and other such University groups. Second, it provides advice on academic and administrative matters.



The Clemson University Newsletter is published for Joanne Jones, a software systems support technician at the Computer Center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

The organization, made up of heads or directors of academic units on campus, meets at least once each semester. An executive committee, composed of a member from each college, represents the group between meetings.

The organization was formed in the 1981-82 academic year.

Reception will honor faculty emeriti

New faculty emeriti will be honored May 9 at a wine and cheese reception in the garden of the President's home, 7:30-9:30 p.m.

The reception will be sponsored by the University Club in conjunction with the Office of the President and the Alumni Association.

Steve Melsheimer, president of the club, says people planning to attend the reception should call the Alumni Center at 656-2345 by May 7.

In the event of rain, the reception will be held in the Alumni Center.

Ticket reminder

Only a few days remain for you to take advantage of faculty-staff discount prices for 1984 football and soccer season tickets.

Employee ticket applications must be returned to the athletic ticket office by May 11 to qualify for the reduced rate. For information call the office at 656-2101.

MAY 3 1984

CU EVENTS

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

May 4-11

WORKSHOPS AND EXHIBITS

- 8-9 Workshop: "Computer Graphics for Engineering Technology."
Sponsored by Continuing Engineering Education, McAdams Hall.
Call 656-3308 for more information.
- 8-9 Workshop: "Microcomputer Update for Faculty." Sponsored by
Continuing Engineering Education, Lehotsky Hall. Call 656-3308
for more information.
- 4-11 MFA Thesis Show. Sponsored by College of Architecture and
Clemson Architectural Foundation, Rudolph E. Lee Gallery, Monday-
Friday, 9-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free.
Call 656-3081 for more information.

OTHER EVENTS

- 9 Luncheon address: "How to Deal with the News Services" with
Margaret Pridgen, associate director of News Services.
Sponsored by Women in Higher Education Network, Holiday Inn,
11:45-1 p.m., \$5 fee includes lunch. Call 656-2353 for more
information.
- 9 Reception to honor new faculty emeriti. Sponsored by the
University Club. Call 656-2345 by May 7 if planning to attend
and for more information.
- 10 Faculty-staff meeting, Tillman Hall Auditorium, 10 a.m.
- 11 Commencement, Littlejohn Coliseum, 11 a.m.
- 11 Deadline for football and soccer season ticket applications to
be returned to the athletic ticket office, Jervy Athletic
Center. Call 656-2101 for more information.

THE NEW YORK PUBLIC LIBRARY

ASTEN LENOX TILDEN FOUNDATION

500 Fifth Avenue
New York, N. Y. 10017



The New York Public Library, Astor Lenox Tilden Foundation, is a non-profit organization that provides access to a vast collection of books, manuscripts, and other cultural resources. The library is located at 500 Fifth Avenue, New York, N. Y. 10017. It is open to the public and offers a wide range of services, including research assistance, reading rooms, and special programs for children and adults. The library's collection includes books, manuscripts, maps, and other materials in many languages. It is a major center for research and scholarship in the United States and around the world.

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Newsletter

May 9, 1984
Vol 23 No 35

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

New planning guide can assist in your program arrangements

OK, so the program-planning wheel of fortune has been spun, and the arrow of responsibility points at you. What do you do? Once upon a time, you may have panicked, but now, with a new step-by-step guide to planning programs, there's no cause to get all broken up when the arrow points your way.

The brochure titled "Are You Planning A Program?" has been sent to all department heads, deans and directors or posting, says Margaret Pridgen, director of news services, and it should provide valuable help to you in scheduling your next big event.

The guide, says Pridgen, should help program planners in two basic ways. "First," she says, "I think it will help people become more aware of the need for notifying us in the News Office well in advance so their programs can be properly promoted on and off campus."

If you plan to promote your program both on and off campus, for instance, you should plan to call several offices. In addition to calling the News Office (656-2061), you should check the University's master calendar for possible scheduling conflicts. The Internal Communications Office (656-2467) maintains that calendar, and after checking dates with that office you should follow up your call with a notification, in writing, of the event.

If you plan to use the University's Publications Office for producing printed promotional materials, you will need to call that office (656-2467) early in the planning stages -- at least 14 weeks in advance.

Should you want coverage from independent campus news organizations, such as The Tiger and WSBF Radio, you should plan to contact them directly.

Another valuable service the guide

provides, says Pridgen, is the listing of meeting rooms and facilities, along with their seating capacities.

"This list should allow the planner to match the room or auditorium with the expected size of the audience," she says. "Such planning can save the embarrassment of having a speaker talking to a half-empty auditorium."

In addition to promoting your event and reserving the right meeting room, there are a myriad other details that have to be worked out. Is the PA system adequate? Do you need audio visual equipment, videotape, or photographers? Does your event require food services? What about someone to introduce your speaker? And what kind of accommodations have you made for the participants in the program?

It's all enough to keep your wheels spinning for awhile, but the program guide should at least keep them turning in the same direction -- toward a successful program.

If your department doesn't have a copy of the guide, says Pridgen, you may get one by calling 656-2061.

SBDC to promote Piedmont business

The College of Commerce and Industry's Small Business Development Center has been designated an "associate office" of the Department of Commerce to help promote the commerce and economic well-being of the Piedmont business community.

The office will serve the business communities in Greenville, Spartanburg, Anderson, Oconee, Pickens, Abbeville, Newberry, Greenwood, McCormick, Edgefield and Saluda counties.

SBDC director Pat Cunningham will serve as a liaison for the commerce department's Columbia district office, providing local businesses with the programs, services, and business data of the federal agency.

The office will periodically provide space for workshops and in-house programs that are of mutual interest to the SBDC and the department.



New space

Along with new opportunities to serve the business community in the Piedmont, the Small Business Development Center also has some new space. The staff recently held open house to celebrate the Center's new quarters in Room 425 of Sistine Hall. Carolyn Aurich, program coordinator for SBDC seminars, tells a visitor to the center about the programs it offers. In the background is Pat Cunningham, the center's director.



Cheeseman

Cheeseman will head ag communications

The agricultural communications department established within University Relations last November now has a director.

Leo V. Cheeseman, a former public relations representative with the American Forest Institute, has been chosen to fill that position says Harry Durham, executive director for University Relations.

Cheeseman will coordinate information services and activities for the College of Agricultural Sciences' public service agencies, including the Agricultural Experiment Station and the Cooperative Extension Service.

Durham says the department, which will be housed in the P&A Building, will be staffed by the four news writers, two artists and three publications specialists who already perform agricultural and public service communications services through various University Relations units.

"The creation of the department," says Durham, "should help to give a clearer focus to our public service in agricultural communications."

Agricultural sciences Dean Luther Anderson says, "We have a large volume of off-campus activities that are very important to the people of the state, and we needed someone to work closely with us not only to get the information out, but to ensure that people are aware of where the information is coming from."

Cheeseman was chosen to head the department, says Durham, because of his "outstanding background" in the media. "He has broad experience in print, audio visual and broadcast media in work very similar to the kind he'll be doing here."

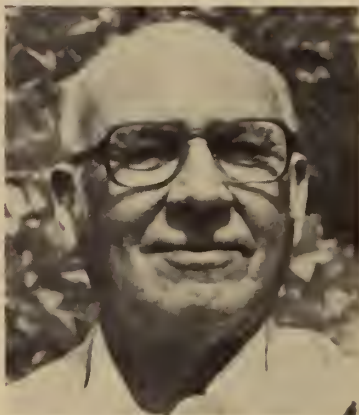
In his 18 years with the American Forest Institute, based in Atlanta, Ga., Cheeseman served in a succession of

positions including that of district manager representing the Memphis and Raleigh districts, special projects manager and continuing education manager.

Since leaving the Institute, Cheeseman has worked with the U.S. Chamber of Commerce to build its membership and to improve the influence of the Chamber with federal legislators and agency officials.

His background with the media includes six years of managerial experience with newspapers in Tulsa, Okla., where he developed specialties in forest products public relations and natural resources and environmental fields.

Cheeseman received his bachelor's degree in journalism from the University of Tulsa in Tulsa, Okla.



Felder

English department establishes the Felder Award

The Herman and Mary Stuart Felder Award for Excellence in English has been established by emeritus faculty member Herman Felder, the award to be endowed by his contribution of \$10,000 in stock.

The award will be given for the first time in 1985 to a student who has shown outstanding academic excellence in English. The recipient must have the highest GPR among those students of English who have completed

112 credit hours or more.

A native of Mullins, Felder is a graduate of Wofford College and received his master's degree from Vanderbilt. He came to Clemson in 1946 and was one of the first members of the Faculty Senate when it was organized in the mid '50s.

He retired in 1972 and now lives in Clemson.

The late Mrs. Felder graduated from Winthrop College and earned her master's degree at the University of North Carolina. She taught for many years at Hanna High School in Anderson.

Pre-retirement seminar set for May 15-16

The second pre-retirement education seminar offered by the Personnel Office will be held May 15-16, so you have only a few days left to reserve your place, says Debbie King, personnel assistant.

"The first seminar on campus was held last December," says King, "and the response was so overwhelming we have increased both the number of sessions and the number of participants for future seminars."

Priority in selecting participants will be given to those who have already called and added their names to the waiting list, so if you want to attend the May seminar, you should call right away, says King.

Employees who attend the seminars must be within 15 years of retirement. They can expect to receive information on such topics as Social Security benefits, retiree insurance, financial planning, wills and estate planning, and health.

"The seminars are designed to help employees realize that retirement is a real part of their future, one they can make more enjoyable by taking steps now to prepare," says King.

Phyllis Gardner from the South Carolina Retirement System will be presenting the May seminar. For more information on the seminar or on pre-retirement planning, call King at 656-2426.



The Clemson University newsletter is published for Catherine Rowland, a custodial worker in Fike Recreation Center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce A. Barrett
Production Assistant _____ Carla Reeves

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MAY 9 1984

CU EVENTS

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May 11-18

WORKSHOPS

- 15 "Financing for Small Business" by Van G. H. Clouse, director of the Small Business Institute. Sponsored by Small Business Development Center and the Clemson Chamber of Commerce, Room 01, Sirrine Hall, 7-9:30 p.m. Call 656-3227 for more information.
- 15-17 "Life Cycle Cost Analysis." Sponsored by Continuing Engineering Education, 101 Riggs Hall. Call 656-3308 for more information.

SPORTS

- 15 Tennis: Wichita State, here, men, 2:30 p.m.
- 16 Tennis: Harvard, here, men, 2:30 p.m.

OTHER EVENTS

- 1-31 Tennis lessons for beginners and advanced adults. Sponsored by Clemson University YMCA, Monday and Wednesday from 6-7 p.m., Tuesday and Thursday from 6-7 p.m. Call 654-2361 for more information.
- 11 Deadline for 1984-85 football and soccer ticket applications to be returned to the athletic ticket office. For more information call 656-2101.
- 11 Commencement, 11 a.m., Littlejohn Coliseum.
- 14 Carolina Journal: Alta Kingman, an assistant professor of horticulture, talks about hortitherapy. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 14-30 YMCA Lifesaving, a 20-hour American Red Cross course open to strong swimmers at least 15 years old. Sponsored by Clemson University YMCA, weekdays 5-7 p.m. Call 654-2361 for more information.



Twenty-year growth shows 146 percent enrollment gain

From 4,116 students in 1963 to more than 10,000 students today -- the University's undergraduate campus enrollment over that 20-year span has grown a bit.

And although female students have represented a major part of that growth, Vice Provost and Dean of Undergraduate Studies Jerry Reel says the growth is also the result of Clemson's "having the right fields available at the right time."

"We have strong programs, for instance, in business, in engineering and in computer science, and with more women attracted to these fields, we have a double demand for the programs."

Reel says that, from the time the first female students enrolled, the administration was in agreement that Clemson would be a strong co-ed school.

"Everyone agreed, from the beginning, that women were going to be actively involved in areas of student life, and I think that has happened," says Reel.

Scholastically, he says, female students are "competing equally with males for scholarships."

Eight out of 20 of the Robert C. Edwards Scholars are women; women hold seven of the 22 R. F. Poole Alumni Scholarships; and three out of four of the William A. Kenyon Scholars are women, says Reel.

"Since we go after the best students we can get, female students are obviously an equal part of the outstanding students we are attracting to Clemson," he says.

The statistics in the 20-year growth chart accompanying this article were compiled and provided by Albert Marx, associate director of admissions and registration.

Have you had enough stress?

Too little can be as bad for you as too much; a certain level of stress is necessary for you to get your job done, says Libby Green, a graduate student in the College of Nursing.

"Productivity and creativity increase with a certain amount of stress," says Green. "But if the level of stress falls short of, or exceeds, the optimal level, productivity and creativity will fall."

Stress is the body's response to any demand made upon it. Too much stress may cause a variety of symp-

20-YEAR GROWTH OF UNDERGRADUATE CAMPUS ENROLLMENT
CLEMSON UNIVERSITY 1963-1983

Year	Men	Women	Total	Percent Women
1963	3982	134	4116	3.3
1964	4084	189	4273	4.4
1965	4337	311	4648	6.7
1966	4599	448	5047	8.9
1967	4806	615	5421	11.3
Growth	20.7%	359.0%	31.7%	
1968	5050	801	5851	13.7
1969	4961	964	5925	16.3
1970	4996	1284	6280	20.4
1971	5159	1698	6857	24.8
1972	5038	2128	7166	29.7
Growth	4.8%	246.0%	32.2%	
1973	5352	2607	7959	32.8
1974	5445	2785	8230	33.8
1975	5703	2945	8648	34.1
1976	5531	3089	8620	35.8
1977	5435	3274	8708	37.6
Growth	7.9%	53.9%	21.5%	
1978	5538	3387	8925	37.9
1979	5638	3602	9240	39.0
1980	5687	3727	9414	39.6
1981	5921	3949	9870	40.0
1982	5973	4169	10,142	41.1
1983	5884	4333	10,217	42.4
TOTAL GROWTH 1963-1982				146.4%
Men				50.0%
Women				3,011.2%

toms including depression, anxiety, stomach and intestinal disorder, chest pain, shortness of breath, headaches, decreased sex drive, inability to concentrate, sleep problems, and a decreased resistance to disease.

But, says Green, too little stress may cause problems, also. Dullness, boredom, tiredness and a lack of energy or enthusiasm all could be your body's response to insufficient stress.

"An optimal amount of stress produces an increase in energy, better concentration, alertness and creativity," she says. "How stress affects an individual is determined by how the person manages the stress."

Green identifies two general sources of stress at work. The first is change, which may be in the form of a promotion or an increase or decrease in the amount of work. The second, she says, involves ongoing conditions, such as continuous confusion about responsibilities or constant high noise levels.

"Confusion or uncertainty about one's role at work can be a major source of stress," says Green. "This may occur when a person is not given enough information about work expected or when limits are placed on the individual which do not allow him or her to fulfill the job requirements."

"Inconsistent demands from a superior or co-worker can greatly increase stress," she continues, "as can incompatible demands for different employers. Another type of role conflict occurs when the behavior demanded by the organization of its employees is in conflict with the employee's personal values or morals."

Green suggests that you can control stress by finding time during work hours and at home to relax, by recognizing the forms of stress early and learning to express pent-up feelings, by talking with friends and relatives, and by participating in enjoyable activities and hobbies.

MAJOR	NON-DEGREE	PROF MAST	MA/MS	EDS	EDD/PHD	TOTAL	MAJOR	NON-DEGREE	PROF MAST	MA/MS	EDS	EDD/PHD	TOTAL
COLLEGE OF AGRICULTURAL SCIENCES							COLLEGE OF COMMERCE AND INDUSTRY						
AGRICULTURE (UNDECLARED)	6	-	-	-	-	6	COMMERCE & IND (UNDECLARED)	8	-	-	-	-	8
AGRICULTURAL ECONOMICS	-	6	7	-	-	13	ACCOUNTING	-	17	-	-	-	17
AGRICULTURAL ENGINEERING	-	0	12	-	9	21	BUSINESS ADMINISTRATION	-	185	-	-	-	185
AGRICULTURAL MECHANIZATION	-	6	-	-	-	6	ECONOMICS	-	-	10	-	-	10
AGRONOMY	-	3	16	-	4	23	INDUSTRIAL MANAGEMENT	-	-	37	-	35	72
ANIMAL & FOOD INDUSTRIES	-	-	23	-	7	23	MANAGEMENT SCIENCE	-	-	-	-	9	9
ANIMAL PHYSIOLOGY	-	-	-	-	11	1	TEXTILE & POLYMER SCIENCE	-	-	-	-	5	5
ANIMAL SCIENCE	-	1	-	-	11	1	TEXTILE CHEMISTRY	-	-	8	-	-	8
APPLIED ECONOMICS	-	-	-	-	11	1	TEXTILE SCIENCE	-	-	-	-	-	-
DAIRY SCIENCE	-	8	-	-	14	8	TOTAL COMMERCE AND INDUSTRY	8	202	63	-	49	322
ENTOMOLOGY	-	2	8	-	14	24							
HORTICULTURE	-	5	18	-	8	23	COLLEGE OF LIBERAL ARTS						
NUTRITION	-	10	10	-	8	28	LIBERAL ARTS (UNDECLARED)	2	-	-	-	-	2
PLANT PATHOLOGY	-	2	8	-	4	24	ENGLISH	-	32	-	-	-	32
PLANT PHYSIOLOGY	-	-	-	-	4	24	HISTORY	-	13	-	-	-	13
WILDLIFE BIOLOGY	-	-	18	-	11	18	TOTAL LIBERAL ARTS	2	-	45	-	-	47
TOTAL AGRICULTURAL SCIENCES	6	43	120	-	68	237							
COLLEGE OF ARCHITECTURE							COLLEGE OF NURSING						
ARCHITECTURE (UNDECLARED)	2	-	-	-	-	2	NURSING (UNDECLARED)	21	-	-	-	-	21
ARCHITECTURE	-	57	-	-	-	57	FAMILY HEALTH NURSING	-	-	32	-	-	32
CITY & REGIONAL PLANNING	-	24	-	-	-	24	TOTAL NURSING	21	-	32	-	-	53
VISUAL STUDIES	-	10	-	-	-	10							
TOTAL ARCHITECTURE	2	101	-	-	-	103	COLLEGE OF SCIENCES						
COLLEGE OF EDUCATION							SCIENCES (UNDECLARED)	10	-	-	-	-	10
EDUCATION (UNDECLARED)	286	-	-	-	-	286	BIOCHEMISTRY	-	-	1	-	3	4
ADM & SUPERVISION	-	47	-	31	-	78	BOTANY	-	-	6	-	-	6
AGRICULTURAL EDUCATION	-	27	-	-	-	27	CHEMISTRY	-	-	19	-	23	42
ELEMENTARY EDUCATION	-	95	-	-	-	95	COMPUTER SCIENCE	-	-	54	-	0	54
INDUSTRIAL EDUCATION	-	19	-	-	-	19	MATHEMATICAL SCIENCES	-	-	38	-	28	56
PERSONNEL SERVICES	-	120	-	-	-	120	MICROBIOLOGY	-	-	17	-	10	27
READING	-	27	-	-	-	27	PHYSICS	-	-	14	-	13	27
SECONDARY EDUCATION (ENGLISH)	-	6	-	-	-	6	ZOOLOGY	-	-	15	-	34	49
SECONDARY EDUCATION (HISTORY)	-	5	-	-	-	5	TOTAL SCIENCES	10	-	164	-	111	285
SECONDARY EDUCATION (MATH)	-	4	-	-	-	4							
SECONDARY EDUCATION (NAT SCI)	-	10	-	-	-	10	COLLEGE OF FOR & REC RESOURCES						
SPECIAL EDUCATION	-	18	-	-	-	18	FOR & REC RES (UNDECLARED)	4	-	-	-	-	4
VOCATIONAL & TECHNICAL EDUC	-	-	-	-	-	17	FORESTRY	-	12	13	-	9	34
TOTAL EDUCATION	286	378	-	31	17	712	RECREATION & PARK ADM	-	28	3	-	-	31
COLLEGE OF ENGINEERING							TOTAL FOR & REC RESOURCES	4	40	16	-	9	69
ENGINEERING (UNDECLARED)	3	-	-	-	-	3							
BIO-ENGINEERING	-	-	17	-	-	17							
CERAMIC ENGINEERING	-	0	10	-	2	10							
CHEMICAL ENGINEERING	-	1	24	-	6	31							
CIVIL ENGINEERING	-	13	22	-	13	48	GRAND TOTAL	342	794	664	31	308	2139
COMPUTER ENGINEERING	-	-	34	-	-	34							
ELECTRICAL ENGINEERING	-	1	42	-	13	56							
ENGINEERING MECHANICS	-	-	2	-	3	5							
ENVIR SYSTEMS ENGINEERING	-	12	26	-	3	41							
INDUSTRIAL ENGINEERING	-	-	14	-	6	20							
MECHANICAL ENGINEERING	-	3	33	-	8	44							
TOTAL ENGINEERING	3	30	224	-	54	311							

Newsletter

MAY 16 1984

May 16, 1984
Vol 23, No 36

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

W. Clement Stone honored during May commencement

An international philanthropist who has dedicated his life to the philosophy of "that which you can share multiplies" received an honorary Doctor of Laws degree during graduation ceremonies May 11 in Littlejohn Coliseum.

W. Clement Stone, who was nominated in 1981 for the Nobel Peace Prize in recognition of his worldwide humanitarian and philanthropic work, shared his famous Positive Mental Attitude (PMA) philosophy with more than 1,400 graduates during the 11 a.m. ceremony.

President Bill Atchley said he was delighted that Stone agreed to come to Clemson to receive the honorary degree and to speak to the graduates.

"W. Clement Stone is one of the most inspirational and positive people I've ever had the privilege of meeting," said Atchley. "I can't think of a finer commencement experience for our graduates and faculty than to hear the words of a man with the vision and the drive of a Clement Stone."

"He's a great American success story, in a business sense and in a personal sense," Atchley said. "He might not be in a class by himself, but I assure you that whatever class he's in, it doesn't take long to call the roll."

Stone's philosophy that any person can become successful no matter how poor the start in life grew directly from his own beginnings in Chicago in 1902. Before Stone was 3 years old, his father died, and the young Stone learned early about making his own way. At 6 he began selling newspapers; at 13 he was running his own newsstand; at 16 he began his career as an insurance salesman, and when he began earning upwards of \$100 weekly, he dropped out of high school to devote more time to the insurance business.

By age 20, Stone had established his own insurance agency, and, with more than a thousand agents representing him throughout the country,



Stone

he sailed through the Depression years on his belief that "every adversity contains the seed of an equivalent benefit if one but searches for it."

Over the years the entrepreneur developed the reputation of having "a Midas flair for making money." His secret to amassing fortunes was in learning how to use OPM -- "other people's money." Stone used OPM successfully in his growing Combined Insurance Company of America, and in 1981 the "National Underwriter" reported that Combined had earned premiums, less dividends, of almost \$3 million, which surpassed the combined totals of its five nearest rivals.

While Stone achieved a flair for making money, he also grew skilled at giving it away, often with the stipulation that recipients raise specified sums of money through their own efforts. Groups concerned with voluntarism, mental health, youth welfare, religion and education are the chief recipients of the contributions channeled through the W. Clement and Jessie V. Stone Foundation, of which Stone is chairman. His personal gifts

and the family foundation grants by 1980 exceeded well over \$70 million.

Stone has written numerous self-described "inspirational self-help action books," chief among them "Success Through a Positive Mental Attitude," which he co-authored with Napoleon Hill, a proponent of the Andrew Carnegie formula for making money. He also is chairman of the board of "Success" magazine, which monthly offers its readers a potpourri of personal success stories and self-improvement articles.

Stone says, however, that the "world's greatest self-help book is the Bible," and he asks for divine guidance before setting out on any new venture. He is president of Religious Heritage of America Inc. in Washington, D.C., and he belongs to scores of fraternal organizations and clubs, including the Horatio Alger Award Committee of the American Schools and Colleges Association Inc.

Although self-taught, Stone earned his high school diploma through the YMCA Central High School in Chicago and has taken courses at the Detroit College of Law and at Northwestern University. He holds, in addition to the Doctor of Laws degree awarded by Clemson, eight other honorary degrees.

Faculty Data Bank updates registry

The Southern Regional Education Board is updating its Faculty Data Bank registry of prospective faculty members and administrators who are interested in serving in a college or university where they would be in a racial minority.

The Data Bank, a registry of persons who have graduate degrees, is updated each year. Periodically, it provides information about vacancies in various fields in community colleges, colleges and universities in the southern region.

For more information on the Data Bank, write to this address: Faculty Data Bank; Institute for Higher Educational Opportunity; Southern Regional Education Board; 1340 Spring St., N.W.; Atlanta, Ga., 30309.



Dickey

Master Teacher Award goes to Joe Dickey

The first day of each semester, dairy science Prof. Joe Dickey makes instant snapshots of all his students, so he can call them by name at their next class meeting.

That kind of extra effort contributes to Dickey's reputation as a teacher who, no matter how large the class, sees each student as an individual.

And that philosophy helped earn him this year's Alumni Master Teacher Award, the University's highest teaching honor.

The award, which carries a \$1,500 stipend from the Alumni Association and is based on student nominations, was presented at graduation ceremonies May 11.

"This award is one way students can recognize excellent teaching skills and techniques," says Jeff McNeill, director of alumni relations.

It's not the first time students have honored Dickey, who colleagues call "a complete professor." In 1983 he received Gamma Sigma Delta honor society's Outstanding Teacher Award.

Dickey has been with the University since 1965 and maintains an active research program in addition to teaching. An expert in reproductive physiology, he is studying the cellular development of embryos as part of an effort to make dairy and beef cattle as productive as possible.

He is also director of the S.C. Agricultural Experiment Station Tissue Evaluation Laboratory.

Dickey received his bachelor's and master's degrees from N.C. State University and his doctorate from Pennsylvania State University.

In addition to serving on seven master's and six doctoral committees, he

is faculty advisor to three student organizations: Alpha Zeta, the Pre-Veterinary Club and the Agricultural Council of Clubs.

He is beginning his third term in the Faculty Senate and is president of the campus chapter of Sigma Xi, a national scientific honorary society.



Goree

Goree receives Outstanding Research Award

A scientist whose work is speeding the development of ultralight, efficient airplane and automobile engines has won this year's Alumni Outstanding Research Award.

The award, which carries a \$1,500 stipend to support the winner's research, was presented May 10 during the faculty staff meeting to mechanical engineering Prof. Jim Goree.

The award is given annually by the Alumni Association and the campus chapter of Sigma Xi, a national research fraternity.

The Birmingham, Ala., native was chosen for his study of composite materials, especially the behavior of fiber reinforced composites.

This new breed of strong, lightweight and resilient materials has already revolutionized the sporting goods market with strong, light fishing

poles, tennis rackets, golf clubs and ski boats, and could eventually replace or strengthen anything from building materials to auto parts.

"Probably the most important use for composites will be in aircraft and automobiles," Goree says. "Composites can substantially reduce weight without sacrificing strength, resulting in better fuel economy."

Goree has been with the University since 1966, except for a one-year sabbatical at the materials division of the National Aeronautics and Space Administration's Langley Research Center. In those years, he has made significant contributions to the field, according to department head Chris Przirembel.

"I think that nine consecutive years of funding by one federal agency, namely NASA, represents tangible proof of the importance of his research," Przirembel says.

"I also find it quite interesting that a major corporation located near the University of Delaware, which has the second largest composite materials research group in the United States came to Dr. Goree for assistance in developing matrix composite connecting rods."

A graduate of the University of Florida, Goree received his master's degree from the University of Washington and his doctorate from the University of Alabama.

He is a member of the American Society of Mechanical Engineers and of the Applied Mechanics Division of the Committee on Composite Materials.

In 1983 Goree received the McQueen Quattlebaum Engineering Faculty Achievement Award.

Research Awards announced

The University Research Grant Committee has announced the recipients of the 1984 Provost Research Awards. Twenty-five \$2,000 awards are presented annually.

Here is a list of this year's winners, their field of study and their research topic:

Darrell G. Yardley (biological sci-



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Editor Jack A. McKenzie
Assistant Editor Joyce D. Barret
Production Assistant Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

ences) -- "Molecular Genetics of the Mosquitofish."

Loretta Carrillo (English) -- "Dance in America: A Reference Guide."

John L. Ging (physics and astronomy) -- "Development of Microcomputer Assisted Introductory Physics."

Susan Duffy (English) -- "Anti-Nazi Drama in the United States."

Alan Schaffer (history) -- "A History of the South Carolina State Lunatic Asylum: 1825-1865."

John P. Wourms (biological sciences) -- "Developmental Biology of the Australian Lungfish."

Carol Johnston (English) -- "Thomas Wolfe: A Descriptive Bibliography."

Sara Barger (nursing) -- "A Model for Evaluating Nursing Center Performance."

Joseph I. Young (architecture) -- "Recorded Sketches of Significant Rural Churches of South Carolina While They Are Extant."

Francis A. McGuire (parks, recreation and tourism management) -- "The Efficacy of Laughter in Reducing Chronic Pain in the Elderly."

Elizabeth M. Baines (nursing) -- "An Investigation of Blood Pressure Variation in Older Adults, Before and After Eating a Meal."

Jerome Franklin Grant (entomology, fisheries and wildlife) -- "Seasonal Occurrence of the Parasite *Brachymeria ovata* on Insect Pests of Soybean in South Carolina and Its Development in Freezer-Stored Hosts."

Leonard Greenspoon (history) -- "An Oral History of Jewish Biblical Scholars in Twentieth-Century America."

Theda Perdue (history) -- "United States Indian Policy, 1789-1860."

James T. Ligon (agricultural engineering) -- "Spatial Analysis of Hazardous Waste Site Data."

D. E. Stevenson (computer science) -- "Rethinking the Foundations of Fifth Generation Computers."

Phillip J. Flower (physics and astronomy) -- "Developmental Work on Graphical Analysis of Stellar Evolution."

Joseph D. Culin (entomology, fisheries and wildlife) -- "Population Dynamics of the Mud-Dauber Wasps and Their Relatives."

Gerald Walker (architectural studies) -- "Preliminary Development of a Text on the History of Architectural Theory."

Janet Mulholland (history and visual studies) -- "Nautical Archaeology: Port Royal, Jamaica."

Samuel Wang (history and visual studies) -- "Development of Permanent Photographic Pigment Printing Techniques - Using Casein as Base."

Michael Vatalaro (history and visual studies) -- "The Design and Construc-

tion of a Large Car Kiln for the Continuation and Development of Creative Ceramic Sculpture."

Kenneth J. Russo (architectural studies) -- "The Spatial Pattern and Architecture of Mill Villages in South Carolina."

A. Ray Abernathy (environmental systems engineering) -- "Mercury Mobilization From Soil and Accumulation by Fish in Richard B. Russell Reservoir."

Mark A. McKnew (management) -- "The Provision of Emergency Medical Services to Rural Areas of South Carolina."

Learn to add life to your years this summer

You can start the next academic year healthier than you finished this one by attending the first Southeast Regional Wellness Symposium Aug.

17-19. It will be a weekend devoted exclusively to "learning to live well," says Dee Evers, coordinator of Nursing Continuing Education which is sponsoring the event.

In the peaceful lakeside surroundings of Clemson's Outdoor Laboratory, you can spend two full days and nights learning how to change your lifestyle and "add years to your life and life to your years," says Evers, symposium coordinator.

Lovers of the wellness lifestyle will feast on nutritional meals free of nitrates, sodium, caffeine and empty calories. "Meals will be planned to provide a wide enough variety to suit everyone from gourmets to vegetarians," she says.

After an optional early morning exercise program, you'll have the chance to attend two workshops of your choice on a number of health-related topics. Sessions include "Opting for Wellness;" "Tapping Your ESP (Extra Success Potential);" "Communing with

(Continued on page 4.)



FOUNDING PATRONS OF EXCELLENCE

Left to right, Clemson University libraries director Joe Boykin, Block "C" Club adviser Cecil Huey, and athletic director Bill McLellan add a fourth nameplate to the "Founding Patrons of Excellence" plaque in Clemson's Cooper Library. The addition recognizes a \$50,000 gift made in the fall by the athletic department and Block "C" Club. So far, says Boykin, the money has been used to buy 10 new microfilm readers and six new microfiche readers, to pay for reconditioned tables for the readers to sit on, and to buy a variety of new books. The new machines, says Boykin, "have really been a boom for our students. If we've done anything right this year, buying that new equipment was it." Each new book, he says, will have a plate affixed to it bearing the name of a student athlete who earned conference honors or higher. "We're extremely grateful to the athletic department and the Block 'C' Club for their support for the libraries," Boykin says, "and we think it's appropriate for the University to recognize its top student athletes by placing books in the libraries in their honor." The libraries three other "Founding Patrons of Excellence" are Mr. and Mrs. Joseph Shirley, William Latimer, and Tigerama.

(Continued from page 3.)

Nature, One Another or Oneself;" "The Healing Mind;" and "Lifelong Sexuality -- A Healthy Perspective."

In addition to the workshops, says Evers, from 12 to 15 speakers will be on hand to talk about various aspects of wellness.

The cost for the wellness weekend is \$134, which includes six meals. Lodging at the Outdoor Laboratory will be an extra \$16 for the two nights.

Evers says continuing education units will be awarded to those who attend the entire conference. For more information, call her at 656-3078.

Braves tickets available

Atlanta Braves fans hankering after a real live Saturday afternoon baseball game may want to call the University Union and buy, or reserve, one of the 25 tickets for the game between the Braves and the St. Louis Cardinals May 26 in Atlanta.

The \$7 ticket will buy you a front-row seat between home and third base. The deadline for ordering the tickets is May 20, but they will be held for you until May 25.

Call the Union at 656-2461 for more information.

Today's professional secretary keeps the office on the move

One word can make a big difference in the business world, and for secretaries that word is "professional," says Lynn McClain, a staff assistant to H. B. Jackson, head of the University's plant pest regulatory service.

McClain, president for two years of the Foothills Chapter of Professional Secretaries International, says that to her the word "professional" describes an attitude or an approach a secretary has towards the job.

And she quickly makes a distinction between the "secretary" and the "professional secretary."

"A secretary just does what she is told to do," says McClain. "She kind of sits back and does the routine things in the office. But the professional secretary goes beyond that. She takes the initiative to get things done, and she takes over when the boss is away."

"I guess the big difference," she says, "is that the secretary works for the boss, but the professional secretary works with the boss to get things done."

In addition to getting things done in the office, McClain gets things done outside the office, too. This year she sat on the S.C. Division of the Profes-

sional Secretaries International board of directors, which, she says, "helped me understand more what the organization is all about."

The mission of the organization, says McClain, is to promote the competence of secretaries, to give appropriate recognition to their profession, and to represent the interests and welfare of those persons working in, and preparing for, secretarial and related positions.

McClain also this year coordinated the annual meeting, at the Ramada Inn in Clemson, of the Foothills Chapter of PSI, the organization that created "Secretary's Day."

The meeting is a quick sellout every year, says McClain, who was named "Secretary of the Year" by the chapter in 1981. She estimates that about half of the 500 secretaries from throughout the Upstate who attend the meeting each year are from the University.

For the secretaries, a favorite part of the luncheon meeting is the fashion show, which features attire appropriate for the office, fashions for evening wear, and leisure and casual wear both for men and women.

"We think that professional secretaries want help in selecting their wardrobes," says McClain, "because what they wear is very important. They, in some cases, are the first impression visitors have of an office or a department, so the way they dress projects an impression, also, of who they work with."

Jim Miller, business manager in Extension administration, agrees with McClain about the importance of dress to a professional secretary.

"I think people definitely get an impression of you from the way you dress," says Miller. "I think a professional secretary will dress appropriately for the office and will also act in a professional manner."

Miller, who values the work of secretaries and the importance of that work, showed his support to them on Secretary's Day. He was one of five men who modeled menswear in the fashion show, which was, he says, a new experience for him.

"It was a little scary the first time out on the stage," says Miller, "but after that, it got easier to go out there."

What's not easy, says Miller, is trying to get along without secretaries.

"We can't do without them," he says. "They are the people who keep the office moving."



SPECIAL SUPPORT

Lynn McClain, president of the Foothills Chapter of Professional Secretaries International, receives a special kind of support in her profession from husband David, as he escorts her in the annual fashion show staged on Secretary's Day at the Ramada Inn for professional secretaries throughout the upstate.

CU EVENTS

MAY 16 1984

This calendar is prepared up to a month in advance. Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467, as soon as possible of any campus event that should be listed.

May 18-25

WORKSHOPS

- 22 "Cash Management" by Robert McElreath, an associate professor of finance. Sponsored by Small Business Development Center and the Clemson Chamber of Commerce, Room 01, Sirrine Hall, 7-9:30 p.m. Call 656-3227 for more information.
- 23 "New Technology in Fabric Inspection, Feedback and Control Systems." Sponsored by Professional Development, Ramada Inn, Clemson. Call 656-2200 for more information.
- 24 "Marketing Management" by Gerald Waddle, head of marketing department. Sponsored by Small Business Development Center and Clemson Chamber of Commerce, Room 01, Sirrine Hall, 7-9:30 p.m. Call 656-3227 for more information.

OTHER EVENTS

- 1-31 Tennis Lessons for beginners and advanced adults. Sponsored by Clemson University YMCA, Monday and Wednesday, 6-7 p.m., and Tuesday and Thursday, 6-7 p.m. Call 654-2361 for more information.
- 18 Classes begin for first summer session.
- 21 Last day to register for first summer session.
- 21-25 College Week for Senior Citizens. Sponsored by parks, recreation and tourism management department. Call 656-3400 for more information.

STUDY ON THE EFFECTS OF THE 1997 ASIAN FINANCIAL CRISIS ON THE ECONOMY OF THE REPUBLIC OF KOREA

The purpose of this study is to analyze the economic impact of the 1997 Asian financial crisis on the Republic of Korea. The study focuses on the period from 1997 to 1999, during which the Korean economy experienced significant challenges. The research is based on data from the Korean Statistical Service and other reliable sources. The study is organized into several chapters, including an introduction, a review of the Asian financial crisis, an analysis of the Korean economy's performance, and a discussion of policy responses.

The Asian financial crisis, which began in 1997, had a profound impact on the Korean economy. The crisis led to a sharp decline in export demand, a collapse in the value of the Korean won, and a severe liquidity crisis for many Korean companies. The Korean government implemented a series of measures to stabilize the economy, including a currency peg to the US dollar and a request for an International Monetary Fund (IMF) loan. Despite these efforts, the Korean economy continued to face difficulties, with a significant increase in unemployment and a decline in household wealth.



The findings of this study indicate that the 1997 Asian financial crisis had a severe and lasting impact on the Korean economy. The crisis led to a sharp decline in GDP growth, a significant increase in unemployment, and a collapse in the value of the Korean won. The Korean government's response to the crisis was a mix of currency pegging and IMF support, which helped to stabilize the economy but did not fully restore the pre-crisis level of economic activity. The study suggests that the Korean economy is still recovering from the crisis, and further policy measures may be needed to promote sustainable growth and employment.

Amateur astronomer amazed at all he sees 'up there'

Dixon Lomax was 8 years old when he got his first "spy-glass," a small telescope of sorts that he could maybe fit into his back pocket and that allowed him to look part way up into the skies and search out the heavenly bodies way up there.

But "part way" wasn't far enough for the lad curious about stars and planets and all the other universes his young mind tried to fathom.

"When I became a teenager, I had a morning paper route, and I saved up money from that to buy a bigger telescope. But now," says Lomax, smiling gratefully, "I have a more serious instrument for looking up there."

To Lomax, president of the Clemson Area Amateur Astronomers Club, a serious instrument is a Newtonian reflector telescope seven and one-half feet in length with a mirror 12 and one-

half inches in diameter. It's portable, it can be taken apart in three sections, and, instead of riding in his back pocket, it has to ride in the back of his pick-up truck.

Lomax, an accounting technician in financial management, grows a bit starry-eyed when he talks astronomy, and he's especially excited about the upcoming solar eclipse (May 30) and the National Astronomy Day (June 2) observation programs his club has arranged for the public.

About one-fourth of the astronomy club's 50 members are University faculty, staff and students, and they will be treating the Clemson community and visitors to a "safe observation" of the almost total solar eclipse.

To ensure a "safe" observation of the eclipse, Lomax and other club

members will be setting up in front of the Kinard Laboratory of Physics several reflector telescopes with special filters that cut the intensity of all wavelengths of the sunlight. One telescope will project the image of the eclipse through a large refrigerator carton and onto a "screen" for public viewing.

The cardboard screen, painted black, will have in its center a large circle of white plastic onto which the sun's image will be projected. The first contact will be at 10:58 a.m.; the maximum eclipse at 12:27:35 p.m.; and the last contact at 2:04 p.m. The image, Lomax estimates, will be about 25 inches in diameter, so that large numbers of people can easily see it at the same time.

The numbers were large -- a couple of hundred, Lomax estimates -- at the last Astronomy Day evening program in '82. (Last year, traditional spring rains cancelled both the original date and the rain date for the program.)

But during this year's evening observation on June 2, weather permitting, 15 or more telescopes of varying sizes will be set up on Water Tank Hill (at Hwys 76 and 93) for viewing the stars, planets and galaxies. The smaller instruments will be set up for viewing the planets, and the larger scopes will be focused on dimmer objects such as star clusters and galaxies.

One star cluster the astronomers hope to show observers this year is the M-13 Globular Cluster, a group of three million stars 25,000 light years away. The M-13, says Lomax, is the target area for a message sent about three years ago from this country.

"You just don't realize what's up there until you look through a scope," he says. "It's a tremendous feeling because you realize that, hey, these are the rings on Saturn I'm looking at, this is not a picture, this is right now."

Although visitors to Water Tank Hill can expect, at the most, about 20 minutes of actual observation, Lomax spends anywhere from three to five hours at a stretch on his own observation deck at home, sometimes hanging in there until two in the morning.

"It's a terrific pleasure," he says, "but it's even more a pleasure when
(Continued on page 2.)



Looking for Baily's Beads -- No, they're not in the telescope. Baily's Beads are lingering "points" of light projecting through the valleys of the moon at the time the sun reaches the maximum eclipse. The "bead-like" effect was discovered by an astronomer in 1836, and members of the Clemson Area Astronomers Club will be looking for it on May 30 in front of the Kinard Laboratory of Physics when they will have their telescopes set up for a safe observation of the almost total solar eclipse. Left to right are club members Dixon Lomax, president, and Ron Samec and Jimmy Mandras, graduate students in physics and astronomy.

(Continued from page 1.)

you can share it with someone. You see, I believe there's the possibility for life all over the universe, not just this one speck of it. And when you consider that the universe keeps getting bigger and bigger all the time, and that where you have so many planets you have an infinite number of chances for life, well, it's just amazing."

Council approves research policy

Following unanimous approval of a change in the University's publication policy, the President's Council April 27 adopted the University-wide Research Policy Document prepared and submitted by the Research Advisory Committee.

The document, presented by Vice Provost Arnold Schwartz, dean of the Graduate School, contains all research-related policies of the University, except procedural matters that pertain directly to proposal submissions and administration of grants and contracts.

The approved revised publication policy states that "the University shall not accept research awards that require research results to be kept confidential forever," and that a definite term of confidentiality shall be stated "in a written non-disclosure agreement and shall not exceed one year beyond the date of notification to the sponsor that a manuscript suitable for publication has been prepared."

"The intent of the policy," said Schwartz, "is to allow faculty to engage in research that is publishable. We know there are occasions for proprietary research, but that research should not be restricted forever."

As for the time restriction, Schwartz said the members of the Research Advisory Committee felt that "one year is not out of line with what is practiced around the country."

Exceptions to this part of the policy may be granted by the University administration, he said, only under unusual circumstances, such as for national security, national emergency, classified activities, or "certain confidential agreements."

The second part of the publication policy states that graduate students whose research is associated with confidential projects "must have prior approval for the use of results in preparing reports, theses or dissertations in fulfillment of degree requirements. The Graduate School will normally not accept a thesis or dissertation that must be held in confidence for more than one year. Documents submitted in partial fulfillment of degree re-

quirements will be retained by the Graduate School in accordance with the non-disclosure agreement."

In other business, the Council removed from the table, at the request of Faculty Senate President David Senn, a request made at the March meeting by the Marshal's Committee that the time for graduation exercises be changed.

Senn made a motion that, beginning with the spring commencement of 1985, graduation exercises begin at 10:30 a.m. Council members, wary of endorsing the change since they heard no strong advantages for it, asked that the matter be referred again to the Marshal's Committee to determine the effect the change would have on various meetings held during the hour before the graduation ceremonies be-

Atchley makes appointments to Staff Affairs Commission

Thirteen staff members have been appointed to the Commission on Classified Staff Affairs, a new commission created this academic year to report to the President's Council on matters of concern to classified employees.

President Bill Atchley, in announcing the appointments, said the duties of the commission are to "formulate and recommend to the President's Council University-wide policies and procedures related to classified employees."

Areas for consideration, he said, include, but are not limited to, the development of job skills and supervisory skills, compensation, benefits and welfare.

"All supervisors must ensure that participation by the appointed staff members in functions of this commission is considered an official duty," said Atchley. He further said that all travel and subsistence expenses incurred by a staff commission member in carrying out official duties must be approved by that member's department and charged to the departmental budget.

The 13 employees, including two ex-officio members, are: Emma Lee

gin.

The commissions reported as follows:

--Vice Provost Jerry Reel, dean of undergraduate studies, reported that three film series, two plays and two musical concerts have been scheduled for the summer school sessions;

--Vice President for Student Affairs Walter Cox, who presided at the meeting for President Bill Atchley, reported that student enrollment this fall will be "slightly up" with about 150 more freshmen this year than last year;

--and Harry Durham, executive director of University Relations, said the Commission on Public Programs is concerned about low attendance -- especially by students -- at University-wide events and is looking for ways to improve the attendance.

Barber, Custodial Worker I, Livestock and Poultry Health;

Paul K. Gable Jr., Business and Finance Analyst, Extension Administration;

Dianne Haselton, Word Processing Operator, Agricultural Economics and Rural Sociology, College of Agricultural Sciences;

Martin R. Koldyke, Administrative Assistant III, College of Education;

Flora M. Walker, Clerical Specialist C, History, College of Liberal Arts;

Patricia B. Durham, Administrative Specialist A, Building Science, College of Architecture;

Donald M. Fowler, Clinical Lab Tec. II, Botany, College of Sciences;

Alice H. Allen, Publications Editor, Registrar's Office;

Jane V. Kidd, Producer-Director IV, University Relations;

Charles G. Pringle, Superintendent of Buildings, Physical Plant.

Gary M. McCombs, Director of Business Systems Development, Business and Finance;

Ray L. Thompson, Director, Personnel Division, Ex-Officio;

Ronald T. Herrin, Director, Payroll and Employee Benefits, Ex-Officio.



The Clemson University Newsletter is published for Bob Barnett, head of the poultry science department, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
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CU EVENTS

MAY 9 1994

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May 25-31

SEMINARS

- 29 "Creative Use of Advertising and Promotion Techniques." Presented by Norman Scarborough, an assistant professor of economics and business administration, Presbyterian College, and co-author of the textbook Effective Small Business Management, Room 01, Sirrine Hall, 7 p.m. Call 656-3227 for more information.
- 31 "Quality Enhancement Systems." Sponsored by Professional Development, Ramada Inn, Clemson. Call 656-2200 for more information.

OTHER EVENTS

- 28-1 College Week for Senior Citizens. Sponsored by parks, recreation and tourism management department. Call 656-3400 for more information.
- 30 Solar Eclipse Watch. Sponsored by Clemson Area Amateur Astronomers, Kinard Laboratory of Physics, 11 a.m.-2 p.m. Free. Open to public. Call 654-3689 for more information.
- 30 Film: "The Candidate." Sponsored by College of Liberal Arts, Y-Theatre, 7:30 p.m. Free. Call 656-3235 for more information.

Newsletter

JUN 4 1984

May 30, 1984
Vol 23 No 38

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Faculty, staff hear recap of truly exceptional year'

Describing the present era as a new Age of Knowledge," President Bill Holley told members of the faculty and staff May 10 that Clemson University is 'place on the move, a place approaching the future with a positive, optimistic outlook.'

And Clemson's mission in this era, he said, will be to "help develop a strategy that will enable colleges and universities in South Carolina to help prepare the state for this New Age."

As evidence of the University's advancement, the President briefly recapped the major accomplishments of the past year, which he called "a truly exceptional year, phenomenal in many ways."

Among the achievements he cited were:

- the establishment of the \$1 million S.I. Research Center, which has been designated as the national headquarters for reliability research for Very Large Scale Integrated Circuits;

- the 210-acre Clemson Research Park to be developed in Anderson County in cooperation with the S.C. Research Authority, a development which, he says, will be "a tremendous magnet for economic growth in the state and a tremendous stimulus for Clemson as well;"

- the honor brought to the University by biological sciences Prof. John Burns, who received the first Guggenheim Fellowship awarded to a Clemson faculty member;

- the recognition chemical engineering Prof. Jim Haile received from the National Science Foundation as a 1984 Presidential Young Investigator, a designation which identifies him as one of the top 200 young researchers in the country;

- The Clemson Players' performance at the Kennedy Center in Washington, D.C., of "American Buffalo," a performance which won acclaim in nationwide drama competition;

- the acceptance of five out of six nominees nominated for Fulbright Scholar-

ships; and

- the creation of new professorships; sizable gifts of equipment; a \$250,000 commitment for competitive academic scholarships; and an increase in the number of extracurricular programs on campus, especially those sponsored by the Thurmond Institute.

Equally encouraging, he said, is the news that for the first time ever, colleges and universities in the state will be receiving full-formula funding, and he expressed appreciation to Sen. James Waddell, chairman of the Clemson University Board of Trustees, for his efforts in getting the Commission on Higher Education and the General Assembly to fund "all the dollars that the higher education formula says we should have to operate Clemson University."

However, he issued a word of caution.

"This does not mean," he said, "that we're suddenly going to have enough money to fund every position we can possibly think of." Emerging from what he called an extremely difficult financial period, the University must put a priority on new equipment and on operating expenses.

The President also spoke of getting some relief from the General Assembly this year on the salary and fringe benefits proviso. "As you know, this requires that we come up with approximately 25 percent of every increase in salaries and fringe benefits that is mandated by the state."

In the past the 25 percent has been raised by increasing student fees. To eliminate the 25 percent requirement entirely will be a top legislative priority for the future, he said.

Ulbrich gives praise and thanks to the 'best senate ever'

The outgoing 1983-84 Faculty Senate President Holley Ulbrich had words of praise, too, for those members of the

(Continued on page 2.)



'GLADLY WOULD LEARN, GLADLY TEACH' -- Mable Wynn, an assistant professor of recreation and park administration, is one of seven professors selected by the Clemson Chapter of the American Association of University Professors who in their teaching embody the highest ideals of the University. Lemon English Prof. Roger Rollin, who presented the awards in the May 10 faculty-staff meeting, said the awards of merit were given to those professors who, in Chaucer's words, "Gladly would learn, gladly teach."

(Continued from page 1.)

Senate who showed "dedication, patience and thoroughness in addressing the issues" in a demanding year.

She thanked especially her vice president, psychology Prof. David Senn, who succeeds her as the 1984-85 president.

Citing specific accomplishments of the 1983-84 Senate, Ulbrich mentioned the Senate's request to review the University's committee/commission structure and the progress the President's Council is making toward making the structure more manageable and more accountable.

"A second major cleanup operation," said Ulbrich, "dealt with grievance procedures." The Senate passed resolutions on changing a number of those procedures, she said; the changes have been approved by Provost David Maxwell; and the changes are to go before the Board of Trustees in July.

Cooperation with the Student Senate, she said, reached a new high with the first ever joint meeting of the two senates held in March, when the two senates agreed on restricting parking on Bowman Field and on the location of the Thurmond Complex.

Other issues the Senate tackled included the following:

--dealt with the issues of academic freedom of expression and editorial censorship in the launching of the first issue of "Open Forum," a special edition of the University Newsletter designed to provide faculty and staff members with a medium for discussing issues and ideas of University-wide interest;

--surveyed the faculty on the question of plus-minus grading, an issue on which the faculty and students, said Ulbrich, are "agreeing to disagree;"

--helped to bring about the disclosure of faculty evaluation results by department heads, a change which the Senate thought would give faculty members some sense of the relative meaning of their performance; and

--worked with the Alumni Association and President Atchley in evaluating the eligibility criteria and selection procedures for the various alumni awards and alumni professorships.

"With a willingness to cooperate, to listen, sometimes to compromise on both sides," said Ulbrich, "it's not so much that we won a lot of battles as that we resolved a lot of problems."

16 retiring faculty members honored

With his characteristic brand of humor, Provost David Maxwell introduced 16 retiring faculty members, who, he said, "come all the way from Chilkoot Barracks, Alaska, to closer home here in Seneca, South Carolina."

The faculty members, collectively,

have given a total of 450 years in teaching service to the University, he said, with the average length of service totaling about 26 and one-half years.

Each of the members now has the title "Professor Emeritus" or "Professor Emerita" in the field indicated.

--Frank A. Burtner, sociology.

--William W. Coffeen, ceramic engineering.

--James T. Craig, agricultural engineering.

--James L. Edwards, mechanical engineering.

--Thurman C. Hardin, mechanical engineering.

--Richard C. Harshman, chemical engineering.

--Joseph R. Haun, horticulture.

--Julius C. Hubbard Jr., textiles.

--A. K. Jensen, vocational and technical education.

--Ernest M. Lander Jr., history.

--Thomas B. Maertens, management.

--John H. Marvin Jr., textiles.

--Wayne T. O'Dell, Director Emeritus of the Cooperative Extension Service and Professor Emeritus of Dairy Science.

--Aileen S. Prevost, nursing.

--John R. Sullivan, mathematical sciences.

--Thomas V. Wilson, agricultural engineering.

Award winners

Alumni Center Director George Moore presented the Outstanding Research Award this year to Jim Goree, a professor of mechanical engineering, for his work in the field of composite materials with the National Aeronautics and Space Administration's Langley Research Center. The award, which carries a \$1,500 stipend, is given annually by the Alumni Association and the campus chapter of Sigma Xi, a national research fraternity.

The faculty approved unanimously the nomination by Corrine Sawyer, chair of the Scholarships and Awards Committee, of Keith Douglas Munson, of Dayton, Ohio, to receive the Norris Medal this year. The award is presented annually at commencement to the best all-around graduate on the basis of scholarship and citizenship.

Provost Maxwell also announced that Bruce Yandle, who has been in Washington, D.C., for the past two years as director of the Federal Trade Commission, has been named an Alumni Professor of Economics.

Also during the meeting, seven faculty members received awards of merit from the Clemson Chapter of the American Association of University Professors. Lemon English Prof. Roger Rollin, who made the presentations, said the awards are given to those professors who "the highest ideals of the University," and who, in the words of Chaucer, "gladly would learn, gladly teach."

The recipients were George Skellern Jr., animal science; Clarence Addiss, building sciences; Holley Ulbrich, economics; Carolyn Briscoe, education; Mable Wynn, parks, recreation and tourism management; John Idc English; and Pam Kline, nursing.



DOE researcher heads agronomy

A former program manager of environmental-related research for the U.S. Department of Energy has been named head of the agronomy department.

Ralph Franklin, who previously supervised research projects through the



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Editor _____ Jack A. McKenz

Assistant Editor _____ Joyce D. Barre

Production Assistant _____ Carla Reeve

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

Office of Health and Environmental Research at national laboratories and universities all over the country, will now direct Clemson's soil science teaching, research and Extension Service activities.

"People often ask how my background in agronomy led to a position with the Energy Department," says Franklin. "We had a legislative mandate to understand the consequences of energy development on people and the environment. Many of the questions required a knowledge of how plants and soils react under various conditions. For example, our knowledge of plant and soil science helped us deal with issues such as the capacity of the environment to recycle waste material."

Franklin earned his bachelor's and master's degrees from the University of Kansas and his doctorate at Ohio State. Before going to Washington, he taught at Ohio State University and conducted research in soil science and plant physiology at the Ohio Agricultural Research and Development Center, an agency similar to the S.C. Agricultural Experiment Station.

Horticulturists form first state society

More than 2,000 horticulturists are joining to form the South Carolina Horticulture Society, the state's first organization devoted solely to the horticulture profession.

A provisional slate of officers has been selected, and the group plans to hold its first meeting later this year in conjunction with a trade show, according to Ansel King, an Extension horticulturist who serves as provisional president of the society.

Bob Andersen, head of the horticulture department, is the provisional first vice president. Officers and a board of directors will be elected at the fall meeting.

The society will bring together growers of fruits, vegetables, turf and ornamentals, horticulture educators and representatives of industries that have an interest in horticulture.

"The South Carolina horticulture industry, which has an estimated annual value of \$500 million, has been needing a professional group to increase horticultural knowledge and public awareness of horticulture," says King.

An organizational meeting in Columbia drew representatives of groups that work with apples, watermelons, peaches, cucumbers, tomatoes, sweet potatoes, and turf, as well as nursery and greenhouse groups, the University, the S.C. Department of Agriculture, the S.C. Farm Bureau and agricultural sales companies.

Clemson's horticulture department has more than 750 living graduates, about 500 of whom live in South Carolina. "The S.C. Horticulture Society will give them a vehicle for cross communication between commodity groups and a direct tie back to the department where they studied," says King.

1,200 students tested in Biology Program

Thanks to all members of the faculty and staff of the Biology Program, the 5th Annual Biology Merit Exam held April 12-13 was a big success, says Doris Helms, program director.

This year 53 high schools and middle schools from throughout the state sent some 1200 students and 70 teachers and parents to participate in the day's activities.

Students took the exam in the morning, and in the afternoon, while the exams were being computer-graded and winners were being determined, students, teachers and parents toured various museums, research laboratories and teaching laboratories in biological sciences.

"In addition," says Helms, "tours to the Horticultural Gardens and a series of films dealing with various aspects of biology were available."

Following a banquet in the Palmetto Room, the awards were presented in Tillman Hall Auditorium, with trophies presented to the top three winners in each of the three divisions.

The top winner in Division II (who must have completed one year of high school biology) and the top winner in Division III (with a two-year biology requirement) received a two-week scholarship to the Clemson Summer Science Camp.

"These scholarships," says Helms, "were generously contributed by the Alumni Association."

Ten First Honorable Mention winners in each division each received a plaque and a book, and approximately 20 other Honorable Mention winners in each category also were awarded books.

Air Force ROTC honors Dean Cox

One of the highest honors given at Air Force ROTC Honors Day didn't go to a cadet. Instead, the cadets showed their admiration for a longtime ROTC supporter -- Walter T. Cox, vice president for student affairs and dean of students.

The ROTC detachment dedicated their 1983-84 Cadet Yearbook to Cox,

who has been at Clemson since 1935 (except during 1942-43, when he served in the Army), first as a student and later as an administrator.

He played football for Clemson's 1940 Cotton Bowl team and later served as assistant football coach, athletic business manager, and baseball coach. His other posts at Clemson have included director of public relations and alumni affairs, and assistant to the University president.

The presentation was made by Col. Lewis Jordan, a professor of aerospace studies.

Don't touch that thermostat

With the arrival of hot weather, the temptation to tamper with the thermostats in your office may increase proportionately with the increase in the temperatures. But, says Walt Stone, director of the Physical Plant, please resist that temptation.

Thermostats have been adjusted to the summer setting of 78 degrees, and hot water temperatures will be maintained at 105 degrees, he says, unless higher water temperatures are necessary for health and research purposes.

Stone says every effort will be made to ensure that the heating does not come on in order to hold the 78-degree setting, but that mechanical systems in some buildings may cause this to occur.

He also asks that lights be turned off when an area is vacated. "Each watt of energy used for lighting requires approximately one-third watt of energy for air conditioning to offset the heat gain from lighting," he says.

"It is our goal to serve you, and we appreciate your cooperation and support. In this era of escalating utility costs and suppressed budgets, it is in the best interest of all of us to use our resources wisely and to continue to pursue energy conservation measures."

If a malfunction occurs, report it to the Physical Plant at 656-2186.

Grady receives Quattelbaum

Environmental engineering systems Prof. Les Grady is the recipient of the 1984 McQueen Quattelbaum Engineering Faculty Achievement Award, given annually to the most outstanding faculty member in the College of Engineering.

Grady, who holds the Robert A. Bowen Professorship in Engineering, was responsible for revamping a water and wastewater treatment systems design course in 1983. He also began

(Continued on page 4.)

(Continued from page 3.)

revising for a second printing a textbook on biological wastewater treatment he wrote in 1980.

In addition to his work as chairman of the Research Committee of the Water Pollution Control Federation, Grady published six refereed articles, and was research advisor for nine master's students and two doctoral candidates in 1983.

He came from Purdue University to Clemson in 1981. He received his bachelor's and master's degrees from Rice University and his doctorate from Oklahoma State University.

Riley commends Pee Dee news editor

Gov. Dick Riley has commended Jerry Dyer, news editor for the Pee Dee Agricultural Experiment Station and the Cooperative Extension Service in Florence, for the role he played in the recovery period following the disaster caused by the tornado of March 28.

The tornado brought death, injuries and loss of property to many citizens throughout the area served by Dyer. It was a disaster, Riley said, which called for "full and speedy utilization of State resources in order to protect the lives and property of our citizens and to assist the victims in rebuilding their lives."

In a letter to Extension director Wayne O'Dell, Riley thanked Clemson University for its "willing contribution" to assist the victims of the disaster.

The commendation by Riley, written in a letter dated May 3, is as follows:

"Mr. Jerry Dyer, of your Extension Service, is particularly to be commended for his long and efficient professional support of the State's Emergency Public Information Organization.

"Because of Mr. Dyer's familiarity with the local media, his full-time commitment at the Disaster Field Office in Florence during the recovery period was of invaluable assistance as a representative of our State Public Information Service, working with the public information officers from the Federal Emergency Management Agency.

"His expertise in coping with the press in a disaster situation played a very large part in assuring the release of correct and timely information to the local and national media. He was equally effective in his efforts to reach those directly affected by the storm with vital recovery information."

Dyer joined the Clemson staff in the fall semester, 1983.

DEPARTMENTAL NOTES

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

BIOLOGY

D. J. Stroup (Asst Prof), S. Aneja (Instr), R. C. Armstrong (Instr), and D. Smith (Instr) judged the oral and written presentations, and W. Surver (Assoc Prof) and Stroup served on the awards committee for the Junior Academy at the Annual Meeting of the S.C. Junior and Senior Academies of Science at the College of Charleston March 30-31.

At that meeting Prof. Surver was elected executive secretary of the Junior Academy and head of the high school relations section of the Senior Academy. He is also a member of the executive committee of the Senior Academy.

Prof. Stroup was selected as the new editor for the Junior Academy newsletter and placed on the Academy's board of directors.

D. R. Helms (Prog Dir) and Prof. Surver attended the combined annual meetings of the National Science Teachers' Association (NSTA) and the Society of College Science Teachers (SCST) in Boston, Mass., April 5-8.

Dr. Helms presented a paper, "Developing an Introductory Level Teaching Faculty as a Separate Unit in a Research-Oriented University," to SCST. She presented two papers to NSCST: "Using TIPS--A Computer-Assisted Management Program to Improve the Quality and Diversity of Introductory Biology Learning Experiences," and "The Use of a Biological Resources Center to Improve Student Performance in General Biology."

Prof. Surver presented a paper to NSTA, "The Development of a Multipurpose Biological Sciences Resources Center."

CHEMISTRY

D. D. Desmarteau (Prof and Hd) published a paper, "Synthesis of CF_3NBr_2 and CF_3NBrCl . Novel Metal Fluoride Promoted Conversion of N-Cl Bonds to N-Br Bonds," in *Inorganic Chemistry*, 23 (1984) 518.

K. Dill (Asst Prof), R. E. Hardy (Grad Stu), R. L. Batstone-Cunningham (Former Vstg Instr), M. E. Daman (Grad Stu) and A. M. Holbrooks (Undergrad Stu) published a paper, "Magnetic Resonance Study of ^{13}C Reductively Methylated Glycophorin and Glycophorin Glycopeptides," in the *International Journal of Biological Macromolecules*, 6 (1984) 103-107.

J. W. Huffman (Prof), R. C. Desai (Res

Assoc/Asst Prof) and G. F. Hillenbrand (Grad Stu) published "Synthesis of (+) Isocelorbicol" in the *Journal of Organic Chemistry*, 49, (1984) 82.

B. A. O'Brien (Vstg Instr), Dr. Mar McLaughlin (Rice Univ) and Dr. C. Liott (Georgia Tech) published a paper, "The Synthesis and Reactions of Potassium Benzoylphosphide, Benzoylphosphine and Benzoylmethylphosphine," in *Tetrahedron Letters*, 1249 (1984).

CIVIL ENGINEERING

J. E. Clark (Prof), S. Maghsoodlou (Auburn Univ) and D. E. Brown (Auburn Univ) published "Public Good Relative to Right-Turn-on-Red in South Carolina and Alabama" in *Traffic Research Record* 926 (1984).

COMPUTER SCIENCE

R. M. Geist (Assoc Prof) served as session chairman of "Pharmacological Analysis" and presented a paper, "Hybrid Modeling Techniques and The Application to Fault Tolerant Computer Systems," at the Fifteenth Annual Pittsburgh Conference on Modeling and Simulation, in Pittsburgh, Pa., April 19-20. The paper was written with Kishor Trivedi (Prof, Duke Univ).

ECONOMICS

N. K. Womer (Prof), T. R. Gullledge (Former Grad Stu and Asst Prof, LSU) and J. R. Dorroh (Prof and Hd, Math LSU) published "Learning and Costs in Airframe Production: A Multiple Output Production Function Approach" in *Naval Research Logistics Quarterly* (March, 1984).

ENGINEERING TECHNOLOGY

R. M. Roberds (Assoc Prof) presented a program, "Particle-Beam Weapon Technology Development," to the Columbia Chapter of the Institute of Electrical and Electronic Engineers (IEEE) in Columbia, April 17.

ENGLISH

R. E. Barfield (Assoc Prof) read "Rus Gook Finds a Hero: Playing With Popular Culture in *Vic and Sade* at the Popular Culture Association Conference in Toronto, Canada, March 30. He also chaired the session "Saints and Sinners in M*A*S*H."

F. L. Day (Assoc Prof) and M. H. Moran (Vstg Asst Prof) judged, and D. Moore (Vstg Instr) chaired the 198 Greenville Arts Festival's creative writing awards competition. Moore served on the Arts Festival's board and scripted the reader's theater presentation for the Roger C. Peace Creative Writing Award ceremony May 12 in Greenville.

Moore is also on the editorial board of

The Emrys Journal, and the premiere issue appeared in conjunction with the Greenville Art Festival.

S. Duffy (Asst Prof) published "The Origin of Speeches: *Inherit the Wind*, Irving Stone and the Scopes Trial" in *American Notes & Queries*, 22, No. 1 (Sept/Oct 1983), 14-17.

S. K. Eisiminger (Assoc Prof) published "Etymology Unknown: The Creme de la Creme" in *American Speech* (Spring 1984).

J. L. Idol (Prof) published "The 1894 Sale of a First Edition of *The Temple in New York*" in the *George Herbert Journal*, 6, No. 2 (1983) 47-48.

Prof. Idol published "Thomas Wolfe and *Moby Dick*" in *Melville Society Extracts*, (February 1984), 9-10.

Prof. Idol also published two book reviews:

-- *Rediscovering Hawthorne* by Kenneth Dauber in *Nathaniel Hawthorne Journal* 1978, 250-53; and

-- Thomas Wolfe's *Welcome to Our City*, edited by R. S. Kennedy in *South Carolina Review*, 16, No. 1 (1984), 33-34.

R. W. Moran (Prof) published "Life on the Rim" in *Negative Capability*, 4, No. 2 (1984), 36-37.

ENVIRONMENTAL SYSTEMS ENGINEERING

M. A. Guthrie (Former Grad Stu, Purdue), E. J. Kirsch (Prof, Purdue), R. Wukasz (Assoc Prof, Purdue) and C. L. Grady Jr. (R. A. Bowen Prof) published "Pentachlorophenol Biodegradation-II-Anaerobic," in *Water Research*, 8, 451-461, 1984.

FINANCE

E. J. Ferreira (Asst Prof) published "Factors Affecting Systematic Risk of Convertible Preferred Stock: An OPM approach" in the *Brazilian Journal of Capital Markets* (April-June 1983).

Prof. Ferreira was invited to serve on the program committee for the 1984 Southern Finance Association meetings in Atlanta, Ga., Nov. 14-16.

Prof. Ferreira presented a paper, "Risk Return Characteristics of Common Stocks of Convertible Security Issuers," at the *Eastern Finance Association Meetings*, April 11-14, in Orlando, Fla. Co-authors of the paper are L. Brooks and C. Edwards (Profs, USC).

FORESTRY

R. M. Allen (Prof) chaired the general program of the Appalachian Society of American Foresters at Charlotte, N.C., Jan. 25-26. Also at this meeting D. D. Hook (Prof) chaired the technical program, and L. Hedden (Assoc Prof) presented a seminar to student members on research opportunities in forestry.

E. J. Biblis (Auburn Univ) and A. W. C. Lee (Asst Prof) published "Properties of Sheathing Grade Plywood Made From Sweetgum and Southern Pine" in *Wood and Fiber Science* 16(1):86-72.

Prof Hook published "Adaptations of Flooding With Fresh Water" as Chapter 8 in *Flooding and Plant Growth*, published by Academic Press.

Prof Lee published "Physical and Mechanical Properties of Cement Bonded Southern Pine Excelsior Board" in *Forest Products Journal* 34(4):30-34.

D. N.-S. Hon (Assoc Prof) gave the following lectures in Brazil April 1-13:

-- "Photochemistry of Macromolecules" at the Institute of Chemistry of the University of Campinas;

-- "Chemical Aspects of Wood Technology" at the Institute of Chemistry of the University of Sao Paulo;

-- "Photobleaching of Wood and Lignin" at the Institute of Physics and Chemistry of the University of Sao Paulo, Sao Carlo Campus; and

-- "A Strategy for Economic Growth of Brazil Through the Application of Science and Technology at the Technical Center for Cellulose and Paper in Sao Paulo.

R. E. Schoenike (Prof) has been appointed to the National Tree, Shrub, and Nature Plant Committee of the Association of Seed Certifying Agencies.

T. A. Waldrop (Former Grad Stu) and D. H. Van Lear (Prof) published "Effect of Crown Scorch on Survival and Growth of Young Loblolly Pine" in the *Southern Journal of Applied Forestry*, 8(1):38-40.

Prof. Van Lear, W. T. Swank and J. E. Douglass (U.S. For Serv) and J. B. Waide (Army Corps of Engs) published "Forest Management Practice and the Nutrient Status of a Loblolly Pine Plantation" in I.U.F.R.O. Symposium on Forest Site and Continuous Productivity in the USDA General Technical Report, PNW-163, 252-258.

S. F. Zitzer (Former Grad Asst) and C. L. Lane (Prof) published "Dinitrogen Fixation and Actinorhizal Plants" as Clemson University Department of Forestry Bulletin No. 39.

4-H AND YOUTH DEVELOPMENT

B. Latimer-Hodges (Asst Prof) participated in a teenage nutrition workshop conducted by staff of the Nutrition Education Center of the Pennsylvania State University and sponsored by the March of Dimes in Atlanta, Ga.

HISTORY

J. L. Arbena (Prof) presented "Music and the Cultures of Latin America" at the 31st annual meeting of the Southeastern Council of Latin American Studies in Auburn, Ala., April 12-14.

T. Perdue (Assoc Prof) chaired a ses-

sion at the Appalachian Studies Conference in Aiken, Ga., March 24.

Prof. Perdue gave a lecture, "From Politics to Pots and Pans: The Changing Status of Cherokee Women," and conducted a seminar on Indian removal at Dartmouth College Feb. 21.

Prof. Perdue presented "Tenuous Allies: Cherokee-Iroquois Relations in the Eighteenth Century" at the Institute of Early American History and Culture's Annual Conference on Early American History in Williamsburg, Va., March 31.

J. V. Reel Jr. (Prof) chaired a session on "Mystery and Detective Literature" at the Fourteenth Annual Meeting of the Popular Culture Association in Toronto, Canada, March 29-April 1. At that meeting Reel presented a paper, "Agatha Christie and Opera."

Horticulturist presented award

A horticulturist who developed several well-known varieties of vegetables has been honored as an outstanding teacher.

Wayne L. Ogle, who teaches vegetable crop and experimental olericulture (vegetable) courses, received the outstanding teacher award from the Clemson University chapter of Gamma Sigma Delta, an international agricultural honor society.

Each year the Clemson chapter honors a South Carolina agriculture professor for excellence in teaching.

While at Clemson, Ogle has developed the Hercules and Colossus peas, Cherokee and CaroGold sweet potatoes, and the Early Market S.C. tomato.

Ogle received his bachelor's degree from the University of Tennessee, his master's from the University of Delaware and his doctorate from the University of Maryland.

HORTICULTURE

The following received awards at the annual meeting of the Southern Region American Society for Horticultural Science in Nashville, Tenn., Feb. 5-7:

-- C. E. Gambrell Jr. (Assoc Prof), D. C. Coston (Assoc Prof), and E. T. Sims Jr. (Prof) received the L. M. Ware Distinguished Research Award for their paper, "Results of Eight Years With CGA-15281 as a Postbloom Thinner for Peaches," published in the *Journal of the American Society for Horticultural Science* (July, 1983); and

-- W. L. Ogle (Prof) received the L. M. Ware Distinguished Teaching Award of the Southern Region ASHS.

At that meeting the following papers were presented:

-- "Effects of Paclorbutrazol (PP 333) (Continued on page 6.)

(Continued from page 5.)

on Peach Trees" by Prof. Coston;

-- "Summer Hedging Effects on Peach Tree Regrowth and Flowering" by K. E. Johnson (Grad Stu) and Prof. Coston;

-- "Black Streak of Peaches -- A Phenomenon" by E. G. Denny (Ag Sci Assoc), Prof. Coston and R. E. Ballard (Assoc Prof Biol Sci);

-- "Apple Growth-Environment Relationships: Quantification of Daily Growth and Development" by J. R. Kruger (Grad Stu), J. R. Haun (Prof) and Prof. Coston;

-- "The Effect of Repeat Soil Applications of Glyphosate Herbicide on Young Peach Trees" by Prof. Gambrell;

-- "Growth and Yield of Cucumber and Okra as Affected by Intercropping" by G. C. Johnson (Grad Stu) and E. L. Loomis (Asst Prof);

-- "The Effect of *Glomus etunicatus* on Nutrient Uptake and Growth of Transplant and Direct Seeded Onions" by L. S. Wamcho (Grad Stu), E. L. Loomis (Asst Prof), H. D. Skipper (Prof, Agron & Soils), Prof. Ogle and J. R. Woodruff (Prof, Agron & Soils);

-- "Approaches to Home Horticulture in South Carolina" by A. R. Kingman (Assoc Prof), who was elected to the Society's nominating committee; and

-- "The Effects of Completely Soluble and Granular Fertilization on Field Grown Bedding Plants" by A. J. Pertuit Jr. (Assoc Prof).

The following papers were presented at the poster session of the ASHS meeting:

-- "Developing an On-Campus Image for Agriculture" by M. B. Haque (Assoc Prof);

-- "Promoting Horticulture Club Activities" by Prof. Haque and J. Martin (Stu);

-- "Entryway to a Community-Landscape Design for an Interstate Highway Intersection" by Prof. Haque and L. Williams (Stu);

-- "Rescuing Wildflowers From the Russell Dam Flood Plain" by D. W. Bradshaw (Assoc Prof), J. E. Faurey III (Assoc Prof, Biol Sci) and C. C. Douglas (herbarium curator, Biol Sci);

-- "Weed Management Systems for Pecan Production" by J. B. Aitken (Prof); and

-- "Extension IPM Projects in Horticultural Crops in South Carolina" by J. A. Brittain (Prof).

HOUSING



Janice Jackson Anderson received the Custodian of the Month award for March. She has been with the Housing Office since 1972.

LANGUAGES

E. P. Arnold (Asst Prof) gave a slide presentation, "Die Deutsche Demokratische Republik--Alles zum Wohle des Volkes?" at the German Section Meeting of the Greenville Area Teachers of Foreign Languages in Greenville April 17.

Also at that meeting, J. B. Romeiser (Assoc Prof) conducted an in-service for high school French teachers.

Prof. Romeiser presented a paper, "The Teaching of French for Computers and Information Science," at the Eastern Michigan University Conference on the Teaching of Foreign Languages for Business and the Professions in Dearborn, Mich., April 5.

MANAGEMENT

W. H. Hendrix (Assoc Prof) published "Development of a Contingency Model Organizational Assessment Survey for Management Consultants" in the *Journal of Experimental Education*, (Winter 1984) 52, (2), 95-105.

M. J. Stahl (Prof and Hd) and A. M. Harrell (Univ of South Carolina) published "Modeling Managers' Effort-Level Decisions for a Within-Persons Examination of Expectancy Theory in a Budget Setting" in *Decision Sciences*, (Winter 1984) 15, (1), 52-73.

MATHEMATICAL SCIENCES

J. V. Brawley (Alumni Prof) gave an invited talk, "Some Computer-Assisted Theorems Related to Matrices Over a Finite Field," in the section on the

Empirical Use of Computers in Mathematics at the Mathematical Association of America Meeting at Tennessee Tech in Cookeville, Tenn., April 6-7.

Prof. Brawley also gave a lecture, "A Excursion in Applied Mathematics," Georgia Southern College April 18, part of the Mathematical Association America's Visiting Lecturers and Consultants Panel, of which he is a member.

J. Kenelly (Prof) attended a meeting of the Mathematical Association America's Committee on Placement Examination in Washington, D.C., April 13-14, and he was elected as the section lecturer for 1984-1985 at the Southeastern Meeting of the Mathematical Association of America in Cookeville, Tenn., April 6-7. Prof. Kenelly is the fourth member of Clemson's mathematics department to hold this position.

Prof. Kenelly gave an invited address "Can You Spot a Trend?" at the North Carolina School for Mathematics and Science in Durham, N.C., April 19.

R. E. Haymond (Prof), J. P. Jarvis (Assoc Prof) and D. R. Shier (Prof) published two papers: "Computation Methods for Minimum Spanning Tree Algorithms" in *SIAM Journal on Scientific and Statistical Computing*, Vol. 5 (1984) 157-174; and "Algorithm 61: Minimum Spanning Tree for Moderate Integer Weights" in *ACM Transactions on Mathematical Software*, Vol. 10 (1984) 108-111. Prof. Shier also published "Some Aspects of Perfect Elimination Orderings in Chordal Graphs"



SOMETHING TO SMILE ABOUT -- After thirty-five years with the University, Jim Edwards, assistant dean of engineering, has something to smile about. After June 30 he will become a Professor Emeritus, as will the 15 other retiring faculty members honored at the May 10 meeting of faculty and staff. President Bill Atchley congratulates Prof. Edwards as Provost David Maxwell shares a smile.

discrete Applied Mathematics, Vol. 7 (1984), 325-331.

R. R. Ling (Prof) was named to a three-year term (1984-86) in the Visiting Lecturer Program sponsored by the Committee on Presidents of Statistical Societies.

Prof. Ling and J. W. Pratt (Harvard University) published "The Accuracy of Greizer Approximations to the Hypergeometric Distribution, With Comparisons to Some Other Approximations" in the *Journal of the American Statistical Association* Vol. 79 (March 1984), 49-60. In that same issue Prof. Ling published a review of *Applied Statistics: Principles and Examples* by D. R. Cox and E. J. Nell.

Prof. Ling and J. B. Gray (Former grad Stu) had a paper, "K-Clustering as Detection Tool for Influential Subsets Regression," selected to be the 1984 *Technometrics* Invited Paper to be presented at the Annual Meeting of the American Statistical Association. The paper will be published in the *Technometrics Journal* in November.

T. G. Proctor (Prof) and J. A. Reneke (Assoc Prof, currently at Naval Coastal Systems Center) presented a paper, "RKH Space Methods for Approximating the Covariance Kernels of a Class of Stochastic Linear Hereditary Systems" at the Eighth Annual Lecture Series in the Mathematical Sciences, at the University of Arkansas April 14.

W. H. Ruckle (Prof) represented Ireland at a conference of Fulbright Scholars in Berlin, West Germany April 13. He is currently at University College in Dublin.

D. D. Warner (Assoc Prof), D. E. Evenson (Comp Sci) and T. R. Brown (Bell Laboratories, N.J.) published a paper, "Biobell -- A Simulation System for Biochemistry and Biophysics" in *Computers in Biology and Medicine*,

Vol. 14, No. 1 (1984) 35-36.

MECHANICAL ENGINEERING

J. G. Goree (Prof) presented a seminar, "Metal Matrix Composites in Reciprocating Engines," to the mechanical and chemical engineering department at the University of South Florida in Tampa March 29-30.

NURSING

L. W. Wickliffe (Instr) was recently inducted into the Society of Nursing Professionals Who's Who in American Nursing.

PARKS, RECREATION & TOURISM MANAGEMENT

B. J. Mihalik (Asst Prof) published "Creating Conference with Caliber" in *Grounds Maintenance* (April, 1984).

Prof. Mihalik received \$1,500 from the Department of the Interior, Southeast Regional Office of the National Park Service to identify and develop an inventory of university and agency specialists willing to assist National Park Service staff in resolving specific park resource management problems.

PHYSICS & ASTRONOMY

P. B. Burt (Prof and Hd) visited the University of Kent, Canterbury, England to do research with J. S. R. Chisolm (Prof) March 16-24. Prof. Burt's trip was supported by a NATO travel grant.

J. Ray (Prof) presented a talk, "Cosmology; the Large Scale Structure of the Universe" to the students and faculty of the science division at Greenville Tech April 11.

R. C. Turner (Assoc Prof) presented "ESR Measurements of Thermo-oxidative Degradation of Polyester" at the meeting of the American Physical Society in Detroit, Mich., March 29.

POLITICAL SCIENCE

M. W. Slann (Prof) published *Eight Nations: An Introduction to Comparative Politics* (New York: Franklin Watts, Inc., 1984).

Prof. Slann presented a paper, "The Pessimistic Politics of Partition: Beyond the Pole of Democracy in the Middle East," on the panel, "Transformations in Middle East Subsystems in the Wake of the 1982 Israeli Invasion of Lebanon," at the 1984 annual meeting of the Florida Political Science Association April 27-28.

PRESIDENT'S OFFICE

B. L. Atchley (Pres) has been named a member of the Clemson chapter of Gamma Sigma Delta, an international agricultural honor society.

PSYCHOLOGY

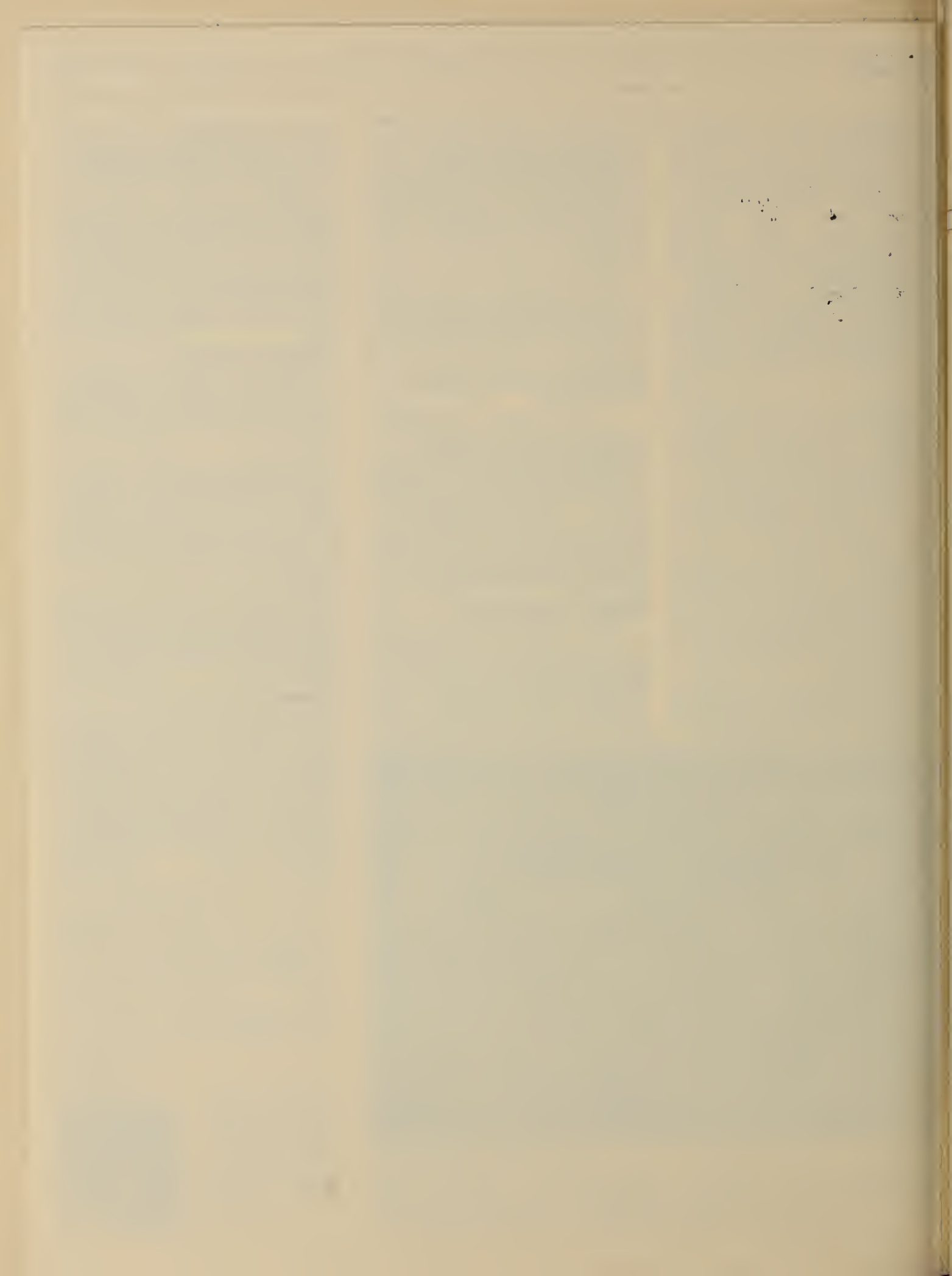
K. M. Zabucky (Vstg Ast Prof), D. D. Moore (Asst Prof) and H. Ratner (Wayne State Univ) presented "Detecting Errors in Comprehension Monitoring Research" at the annual meeting of the Eastern Psychological Association in Baltimore, Md., April 12-15.

SOCIOLOGY

C. M. Sieverdes (Assoc Prof) gave a talk on "Food: Agriculture in the Liberal Arts" at the annual meeting of the Extension Specialists Association in Clemson April 4.

THURMOND INSTITUTE

H. W. Fleming (Dir) conducted a session of Leadership Greenville for the Chamber of Commerce April 4; chaired a panel on "South Carolina Politics" at the annual meeting of the South Carolina Political Science Association April 14; and was a discussant on a panel at the annual meeting of the Southern Regional Science Association in Orlando, Fla., May 3.





Newsletter

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance.
Please notify the Department of Publications and Graphics Services, 103 Fike, 656-2467,
as soon as possible of any campus event that should be listed.

June 1-8

SEMINARS

- 5-6 "Jet Dyeing: Rapid Cycles for Polyester." Sponsored by Professional Development, Ramada Inn, Clemson. Call 656-2200 for more information.
- 6 "Better Profits Through Better Selling" by Dr. Louis Stone, an assistant professor of marketing. Sponsored by Small Business Development Center, Room 01, Sirrine Hall, 7 p.m. Call 656-3227 for more information.

OTHER EVENTS

- 1-4 YMCA Basketball Camp registration. Call 654-2361 for more information.
- 2 National Astronomy Day Observance. Various planetarium programs and observing programs scheduled throughout the day. Sponsored by Clemson Area Amateur Astronomers. Free. Open to public. Call 656-3417 for more information.
- 4 Carolina Journal. Rerun of Admiral Hyman Rickover's address presented here Oct. 4, 1983. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 4-8 Basketball Camp. Sponsored by Clemson University YMCA, 9 a.m.-3 p.m. Call 654-2361 for more information.
- 4-8 Nurses' State Board Review. Sponsored by Nursing Continuing Education, Student Senate Chambers, University Union. Preregistration required. Call 656-3078 for more information.
- 6 Film: "Advise and Consent." Sponsored by College of Liberal Arts, Y-Theatre, 7:30 p.m. Free. Call 656-3235 for more information.

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Newsletter

JUN 8 1984

June 6, 1984
Vol 23 No 39

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Rainbow of Hope shines for Outdoor Laboratory

The South Carolina Jaycees are looking for a pot of gold at the end of the rainbow -- not for themselves, but for the hundreds of disabled children who visit the University's Outdoor Laboratory each summer.

The pot of gold the Jaycees are seeking is large -- \$1,500,000 to begin with -- and, says Sonny Sanders, Jaycee fundraising director, although building that amount might take awhile, it's a realistic goal.

"You know, the difficult things we can do with ease, but the impossible takes a little longer," Sanders said at a May 17 fund-raising kick-off luncheon at the Clemson House. At that time Mrs. John D. West, the state's former first lady, was named honorary chair of the campaign called "Rainbow for Hope."

The Jaycees plan, with the campaign, to establish a permanent fund to underwrite the operation of the specialized camps held at the Outdoor Laboratory each summer for youngsters suffering from various disabilities.

Those camps include Jaycee Camp Hope (mentally handicapped), Camp Lion's Den (visually handicapped), Camp Sertoma (speech and hearing impaired), and Camp Running Brave (hemophiliac).

"These young people receive all the experiences of a regular summer camp, many of them for the first time," said Charlie White, the associate professor of parks, recreation and tourism management who directs the Outdoor Laboratory. "Camp experiences broaden a youngster's perspective on life, and

many are better able to cope and relate when they leave.

"We're extremely grateful to the South Carolina Jaycees and Jaycee Women for their continued support and faith in our programs at the Outdoor Laboratory. They've been the backbone of our program for 15 years, and the success of the Rainbow program should help give relief in their annual fund-raising drives.

The Jaycees raised \$125,000 in 1974 to help the University build a complex of 10 cabins to serve as a permanent home for the Camp Hope program. And, in 1983, the group contributed \$20,000 to help each of the 268 children who attended camp that year.

Returns from the "Rainbow for Hope" endowment will be used to augment the Jaycees' annual support of Camp Hope and to underwrite facility maintenance and improvements throughout the Outdoor Laboratory complex.

Although a final monetary goal remains to be established, the campaign is expected to continue for three years.

Students design Atlanta building

Fourth-year students in the College of Architecture may have disproved those who feel that time spent in school could be better spent in gaining practical experience. The students, under the supervision of three professors of architecture, did both at the same time.

Sixty members of the fourth-year class spent 10 weeks designing a new Fulton County, Ga., government center. What sets this project apart from other class projects are the 10 sets of drawings, models and site plans that will be used by Fulton County and the Atlanta-based architectural firm FABRAP to better understand the proposed site and urban design considerations involved in planning and constructing the actual building.

Brian Gracey, project director for the Fulton County Building Authority, says he hopes the students' projects will also help county officials understand the problems involved in transforming a now vacant nine-block area of downtown Atlanta into an operations center
(Continued on page 2.)



Rainbow for Hope -- At the end of this rainbow is a \$1,500,000 pot of gold, a campaign sponsored by the South Carolina Jaycees to support the University's Outdoor Laboratory, where each summer hundreds of handicapped children experience the joys of camping. Kicking off the drive at a May luncheon were, left to right: Benny Williams, general chairman of the campaign, who presented the first check to the "Rainbow for Hope" from the state's Jaycees; Charlie White, director of the Outdoor Laboratory and Jaycee administrative director; Mrs. John West, honorary campaign chair; and Jaycee Sonny Sanders, director of fund-raising. Also at that meeting, but not pictured here, was Charlene Williams, who presented a donation on behalf of the South Carolina Jaycee Women.

(Continued from page 1.)

for all levels of county government.

A group of students, accompanied by architecture faculty members Martin Davis, John Jacques and Johannes Holschneider, delivered the 10 projects to the Fulton County Court House, where they will be displayed.

According to Davis, the College of Architecture received \$500 for the project from both Fulton County and the North Carolina-based Pre-cast Concrete Institute. These funds allowed the students to visit the Atlanta architectural firms of Thompson, Ventulett and Stainback and Smallwood, Reynolds, Stewart and Stewart. Those firms, along with FABRAP, advised the class on the nature of comprehensive urban design.

The group also was able to visit Southeast Schokbeton, a pre-cast concrete manufacturer based in Lavonia, Ga., to learn about pre-fabricated concrete construction.

The 60 members of the class were divided into 10 groups, each of which worked on separate designs of the proposed complex. According to Davis, the quality of the students' work was "exceptional."

Design specialist joins staff



Miller

The Extension Service has a new member on its staff -- Karen Miller, who joined Extension recently as an interior design specialist.

In that position she will provide research-based information and training in interior design to help Extension agents in the counties solve and prevent problems for South Carolina, said Wayne T. O'Dell, Extension director.

She fills a vacancy created in 1982 when interior design specialist Mary Ellen Blackburn took a job in Georgia.

A native of Ohio, Miller received a bachelor's degree in home economics from Bowling Green State University, a master's degree in family housing and equipment from Purdue University and a doctorate in housing, family decision-making and communications from the University of Tennessee.

She has taught home economics at Western Carolina University, Miami University in Ohio, Bowling Green State University, the College of Mount St. Joseph at Cincinnati and the University of Cincinnati.

Her background also includes private consulting in home economics.

Warm-ups prevent 'charley horse'

Most people who exercise a good bit are all too familiar with the "charley horse," a slang term for muscle strain that commonly refers to leg cramps.

"The cramp is the body's way of protecting a damaged muscle," says Carol Schwartz, an assistant professor of nursing. "So don't exercise it out. Bounce-stretching or rubbing vigorously can tighten the muscle."

The proper treatment, says Schwartz, is to stroke the muscle gently toward the heart, a technique that promotes circulation.

The massage technique is simple. In sitting position with the cramped leg bent, pull your foot toward you to stretch the muscle. With your free hand squeeze the calf muscle as hard as you can for about 15 seconds, until the spasm is released.

Next, press the fingers of both hands above the ankle in the center back of the leg. With each repetition, press a little more firmly. Repeat this until the spasm is completely gone, a process that, says Schwartz, should take about three minutes.

Better yet, take precautions to prevent muscle strain in the first place. "Stretch your muscles before exercise to warm them up," she says. "Using a heating pad is sometimes recommended."

If proper warm-up exercising doesn't help the problem, try wearing high socks or leg warmers. Shoes that have slightly raised heel and shock absorbers in the soles also help, she says.

Have you tried Videotex?

You might call it a crystal ball of sorts. You walk up to a terminal, punch a few keys, and presto: Headline news, weather and sports, important campus information, and lists of upcoming events, such as lectures, music, drama, and films appear on a screen, allowing you to keep up with the present and take a peek into the future.

Videotex terminals, part of a computerized communications system that'll help keep you informed of University news and events, are now at these sites: Harcomb Dining Hall, the Computer Center, the University Union loggia, and the lobby of the P&A Building.

If you like staying informed, touch a terminal today.



The Clemson University Newsletter is published by Rosemary Cooke, a technical assistant in the Cooper Library and for all the members of the University faculty and staff in the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenz
Assistant Editor _____ Joyce D. Barr
Production Assistant _____ Carla Reeve

The staff welcomes your comments and suggestions. Call at 656-2467 or write us at 103 Fike Center.

JUN 8 1984



Newsletter

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June 8-15

SEMINARS AND WORKSHOPS

- 10-23 1984 Summer Science Program. Sponsored by College of Liberal Arts and College of Sciences. For middle and high school students with a general interest in science. Call 656-3210 for more information.
- 11-22 Clemson Career Workshop for Minority Students. Sponsored by Continuing Engineering Education. Two-week session for high school students just finishing their sophomore year to study such fields as computers, engineering and marketing. Call 656-3308 for more information.
- 11-22 Seminar for secondary school social science teachers. Speakers include Kenneth Cribb, assistant counselor to President Reagan on "Advising a President"; U.S. Reps. Butler Derrick and Carrol Campbell on "The Congressional Legislative Process" and the "Role of the Minority Party in the Congress"; Ralph Becker, former Ambassador to Honduras, on the "Work of an Ambassador"; and U.S. Sen. Strom Thurmond on "The Importance of Education to the United States." Sponsored by the Thurmond Institute. Application deadline, May 1. For more information call 656-3122.
- 12 "IEEE Videoconference/Personal Computer Software." Sponsored by Continuing Engineering Education. Call 656-3308 for more information.

FILMS, DRAMA AND LECTURES

- 13-17 "Snoopy." A Clemson Players' production. Daniel Hall Auditorium, 8 p.m. and 2 p.m. matinee June 16 and 17 (matinee only). Tickets \$2 for general public, \$1 for Clemson faculty and staff, free to University students. Call 656-3446 for more information.
- 13 "Go Tell The Spartans." Sponsored by the College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3235 for more information.
- 13 Luncheon address: "Overview of Anderson College" by Carol O. Willis, Office of Student Development, Anderson College. Sponsored by Women in Higher Education Network, Holiday Inn, 11:45 a.m.-1 p.m., \$5 fee includes lunch. Call 656-2353 for more information.

OTHER EVENTS

- 9 Graduate Record Exam (general only). Sponsored by Counseling and Career Planning Center. Martin Hall, 8 a.m.-12 noon. Call 656-2451 for more information.
- 11 Carolina Journal: Ralph Knowland, head and professor of building sciences, talks about "Barrier-Free Architectural Design." Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 11 "Dancin' Aerobics." Sponsored by YMCA, Holtzendorf YMCA, 9-10 a.m. and 5:30-6:30 p.m. on Monday, Wednesday, and Friday. Call 654-2361 for more information.
- 15-17 Alumni Reunion Weekend: Alumni National Council meets June 15; the all-classes program meets June 16; and the awards banquet will be June 16. Sponsored by Alumni Association. Call 656-2345 for more information.

News

4/29

The first of the season's tropical storms, Tropical Storm Floyd, is expected to make landfall in the Southeastern United States on Friday, September 10. The storm is currently located in the Gulf of Mexico and is moving northward. It is expected to bring heavy rain and strong winds to the coastal areas of Florida, Georgia, and South Carolina. The National Hurricane Center is monitoring the storm closely and will provide updates as more information becomes available.

In other news, the U.S. Supreme Court has ruled in favor of the federal government in a case involving the National Labor Relations Board. The Court held that the NLRB's decision to order the reinstatement of a fired employee was unlawful. This decision is expected to have significant implications for labor law and the rights of employers.

Meanwhile, in the world of sports, the NFL has announced that it will be holding a draft of players from the Canadian Football League. This move is seen as a way to strengthen the NFL's talent pool and to promote the growth of the sport in North America.

The NFL's decision to draft players from the CFL is a significant step in the league's efforts to expand its reach and to attract new fans. By bringing in players from the CFL, the NFL hopes to introduce a new wave of talent to the league and to create a more competitive and exciting game. This move is also seen as a way to promote the growth of the sport in North America and to create new opportunities for players and fans alike.

In addition, the NFL has announced that it will be holding a series of events to promote the league and to attract new fans. These events will include a series of games, a series of press conferences, and a series of other activities. The NFL hopes that these events will help to create a more vibrant and exciting atmosphere around the league and to attract a new generation of fans.

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Newsletter

JUN 13 1984

June 13, 1984
Vol 23, No 40

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

University moving ahead in telecommunications

When Chris Duckenfield talks about the "old days" of telecommunications, he's not necessarily talking about the past.

"These are the old days," says Duckenfield, director of the Computer Center. "We're still transmitting voice and data the way we always did."

Moving out of the old days will mean a switch in the University's telecommunications system, and President Bill Atchley has charged Duckenfield with developing the University's long-range telecommunications plan.

In formulating that plan, Duckenfield is working with a group consisting of John Newton, assistant vice president for business services; Chuck McNichols, professor of management; Dave Bullard, Computer Center engineering manager; and Richard Nelson, lecturer for the Computer Center.

Duckenfield says that presently neither the University's telephone system nor its data transmission system meets the projected requirements for the next decade; therefore, a likely recommendation from the group will be the installation of a single switching system, which could be capable of handling both voice and data transmissions.

Right now, says Duckenfield, the telecommunications system is a "costly jumble of cables" scattered throughout the colleges and departments.

"We are cabling the campus to death," he says. "Everytime someone installs a terminal, they pull another wire, and this is expensive. It doesn't make economic or logical sense to continue to develop our network this way."

True, the change to a new switching system will also be expensive, costing in the millions of dollars; but, says Duckenfield, data will be transmitted easier and faster and there will be maximum flexibility in interconnecting with networks around campus.

"The switch will not only give a new voice system," he says, "but all those lines across campus will be connected to a single switch, so that every office can dial up any computer or any other

work station through a terminal. With the combined voice-data switch, there'll be less worry about wires to hook up faculty, staff and students with everyone else. The wire will be there."

The University has the option of purchasing its own switching system, he says, or of leasing equivalent services from Southern Bell. He estimates that an on-campus system that would provide about 6,000 lines would cost between \$6 million and \$7 million.

"But there's also the cost of additional staff to implement the system, and there's maintenance," says Duckenfield, "because computers break, unfortunately. The new voice terminal systems -- they're not called telephones anymore, you know -- are getting tremendous features, but along with more features come more problems. And, there'll have to be a lot of re-education for everyone to learn how to use the new features."

On the other hand, he says, leasing a system would eliminate the need for maintaining and upgrading equipment since the lessor would be responsible for that.

Duckenfield says video transmission is not a primary concern at this time. "Video applications, at present, are relatively small; that is, the requirements are non-specific. People can see general applications but not a lot of specifics," he says.

A specific application, he says, would be using video communications to teach classes remotely in the dorm room on demand.

"Right now, you see, we wouldn't know where to put video cable, because we don't know how it would be used."

However, he says, "if at the time we install voice and data capabilities the incremental cost to include video capabilities is small, then we would recommend pulling video cable at the same time for future use."

Duckenfield estimates the University will be using a new switching system by July 1985.

"Southern Bell plans to have their

Clemson central office updated by then so that we can lease service from them or handle the switching here on campus, if we want to get our own system."

Until that time, according to President Atchley, Duckenfield will be the liaison between the University and outside agencies, including telecommunications vendors, on all matters related to the telecommunications plans. "No installations of new networks, nor major enhancements or changes to existing communications networks should take place without his approval," says Atchley.

Duckenfield says the intent of the telecommunications planning group is not to tell departments or colleges which computer or communications equipment they can or cannot get. "If they want to go their own way, that's up to them. But we do want them to know what will be available, so they can make the wisest decision on how to best use their funds."

To that end, meetings are being scheduled with deans and department heads to find out what they want to do and to bring them up to date on the options open to them.

National leaders tackle issues in social sciences

One of President Reagan's counselors, several state government leaders, and U.S. Sen. Strom Thurmond will be among the speakers at a seminar for secondary school social science teachers here June 11-22 in 108 Strode Tower.

Although only secondary school teachers may participate in the seminar, members of faculty and staff may attend individual sessions by calling ahead for reservations.

Sponsored by the Thurmond Institute, the seminar consists of two weeks of lectures and films dealing with various aspects of U.S. politics, including federalism, national government, political parties, interest groups, and the mass media and government.

Here is a partial schedule of the weeks' speakers and their topics:

(Continued on page 2.)

(Continued from page 1.)

-- June 11, 9 a.m.: U.S. Rep. Butler Derrick, "The Congressional Legislative Process;"

-- June 11, 1:30 p.m.: U.S. Rep. Carroll Campbell, "Role of the Minority Party in the Congress;"

-- June 13, 9 a.m.: Ralph E. Becker, former ambassador to Honduras, "Work of an Ambassador;"

-- June 15, 9 a.m.: Nancy Thurmond, author and campaign worker, "On the Campaign Trail;"

-- June 18, 9 a.m.: Tee Ferguson, S.C. state legislator, "Blacks and the Two-Party System;"

-- June 18, 1:30 p.m.: S.C. Sen. James M. Waddell, "The Legislative Process in the S.C. Senate;"

-- June 18, 6:30 p.m.: Kenneth Cribb, assistant counselor to President, "Advising a President;"

-- June 19, 9 a.m.: William Traxler, 13th Circuit Solicitor, "Courts in South Carolina;"

-- June 21, 9 a.m.: Powell Moore, vice president of legislative affairs, Lockheed Corp., "Principles of Successful Lobbying;"

-- June 22, 1:30 p.m.: S.C. Sen. Liz Patterson, "How to Organize a Local Political Campaign;" and

-- June 22, 6:30 p.m.: U.S. Sen. Strom Thurmond, "Importance of Education to the United States."

For information on other scheduled speakers or to make reservations, call political science Prof. Harold Albert at 656-3122.

Clemson student receives sole IEEE Fellowship

Perry Robertson, an engineering graduate student, has received a pre-doctoral fellowship from the Solid State Circuits Council of the Institute of Electrical and Electronic Engineers. The Council awards only one such fellowship nationwide each year.

Robertson, who received his master's in electronics here in May, will get a \$7,500 stipend plus \$7,500 for tuition and other academic expenses.

A resident of Greensboro, N.C., Robertson earned his bachelor's degree at N.C. State University. He will present his master's thesis at the 1984 International Conference on Solid State Devices and Materials set for October in Kobe, Japan.

In 1983 Robertson earned an Industrial Graduate Fellowship, which provides a stipend and summer employment with the supporting industry.

These dummies can read!

"Look! That dummy can read!"

That's what you might have said if you walked through the University Union loggia a few weeks ago. But if you took a second look at the guy leaning against the pole, you discovered he wasn't a real "he" at all -- only a product of some imaginative CAVA 209 (beginning sculpture) students in history and visual studies.

Their teacher, Asst. Prof. Jim Stockham, describes the class as "a lot of fun and a chance for students to experiment and use their imaginations."

One might ask how these human-like figures came to be. Well, you've heard the old expression "an eye for an eye and a tooth for a tooth," right? How about an arm for an arm and a leg for a leg?

Stockham explains: "It all started one day when someone in class had some of that plaster gauze like Redfern [the student health center] uses to wrap



"Mummy's the word"

broken arms. Well, we just started putting it on each other and cutting it off. The students divided into groups and, after wrapping different parts of the body, put the pieces together like a puzzle."

About half of the students used this method for their figurative sculpture projects.

"George Segal is a famous artist who uses this type of technique, so part of our project included learning about him," says Stockham.

Students also learned how to work with wood, plaster and metal during the semester.

Sculpture 209 is offered by the College of Architecture, but Stockham says he has students from other colleges and departments, including nursing and forestry.

"Now that we know how to use this technique," said Stockham, "maybe next time we can make some sort of environment, like a street-corner complete with windows and everything."

So now, if you're walking down the street and tap a stranger on the arm to ask the time, and he feels kind of hollow and doesn't answer, you'll know where he came from.

Reach out and touch Videotex

What in the Clemson world is going on around here? If you'd really like to know, try reaching out and touching a Videotex terminal.

Videotex, a new computerized communications technology that is being put to work right here, will help keep you "in the know" about news and events on campus, from workshops and lectures to films, concerts, sports and the latest weather information.

Videotex terminals are in Harcom Dining Hall, the loggia, the P&A Building, Ag Sales, and the Computer Center.

Try one.



The Clemson University Newsletter is published for Susan Patterson, a custodial worker in the P&A Building, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenney
Assistant Editor _____ Joyce D. Barlett
Production Assistant _____ Carla Rees

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.



JUN 13 1984

CU EVENTS

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June 15-22

SEMINARS AND WORKSHOPS

- June 15 Seminar for Secondary School Social Science Teachers. Nancy Thurmond, author and political campaign worker, talks about life "On the Campaign Trail." Sponsored by Thurmond Institute, 108 Strode Tower, 9 a.m. Call 656-3122 for more information.
- June 18 Seminar for Secondary School Social Science Teachers. Tee Ferguson, S.C. state legislator, talks about "Blacks and the Two-Party System" at 9 a.m.; S.C. Sen. James M. Waddell talks about "The Legislative Process in the South Carolina Senate" at 1:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.
- June 19 Seminar for Secondary School Social Science Teachers. William Traxler, 13th Circuit Solicitor, talks about "Courts in South Carolina" at 9 a.m.; J. McDonald Wray, executive vice president, S.C. Municipal Association and Russell Shetterly, executive director, S.C. Association of Counties, talks about "The Changing Role of Local Government in South Carolina" at 1:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.
- June 20 Seminar for Secondary School Social Science Teachers. David Woodard, a professor of political science here, talks about "Managing Local Government" at 9 a.m.; Sharon Riggs, Lexington City Councilwoman and Beth Pinson, Greenwood County Democratic Chairwoman, talks about "How Teachers Can Get Into Politics" at 1:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.
- June 20-21 Seminar. "I.E. Update: Computer Applications in Work Measurement." Sponsored by Continuing Engineering Education, 302 Rhodes Hall. Call 656-3308 for more information.
- June 21 Seminar for Secondary School Social Science Teachers. Powell Moore, vice president of legislative affairs, Lockheed Corp., talks about "Principles of Successful Lobbying" at 9 a.m.; Donald McLeese, vice president of Cook, Ruef, & Associates, talks about "Political Advertising" at 1:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.
- June 22 Seminar for Secondary School Social Science Teachers. Leland Bandy, Washington correspondent for The State, talks about "The Washington Press Corps" at 9 a.m.; S.C. Sen. Liz Patterson talks about "How to Organize a Local Political Campaign" at 1:30 p.m.; U.S. Sen. Strom Thurmond talks about "Importance of Education to the United States" at 6:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.

CAMPS

- June 17-23 Camp Hope, for mentally handicapped 18 and older. Sponsored by S.C. Jaycees and parks, recreation, and tourism department, Clemson Outdoor Laboratory. Call 646-7502 for more information.

Standard 100

The Standard 100 is a series of 100 questions designed to test the student's knowledge of the principles of the Standard 100. The questions are arranged in a logical order, starting with the most basic principles and gradually increasing in difficulty. The questions are designed to be both challenging and fair, and are intended to provide a comprehensive test of the student's knowledge of the Standard 100.

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June 17-23 Camp Sertoma for underprivileged children. Sponsored by S.C. Sertoma Club and parks, recreation, and tourism, Clemson Outdoor Laboratory. Call 646-7502 for more information.

OTHER EVENTS

June 15-17 Play: "Snoopy." A Clemson Players' production. Daniel Hall Auditorium, 8 p.m. Matinee at 2 p.m. June 16 and 17. Tickets \$2 for public; \$1 for faculty and staff; free to University students. Call 656-3446 for more information.

June 15-Aug. 15 Exhibit: "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.

June 18 Carolina Journal: Luther Anderson, dean of the College of Agricultural Sciences, and Sen. Ed Garrison of Anderson District I, give an agricultural update. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.

June 15-17 Alumni Reunion Weekend: Alumni National Council meets June 15; the all-classes program meets June 16; and the awards banquet will be June 16. Sponsored by Alumni Association. Call 656-2345 for more information.

June 22 Examinations.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for the company's financial health and for providing reliable information to stakeholders.

2. The second part outlines the specific procedures for recording transactions. It details the steps from initial entry to final review, ensuring that all data is captured correctly and consistently.

3. The third part addresses the role of the accounting department in overseeing these processes. It highlights the need for regular audits and the implementation of internal controls to prevent errors and fraud.

4. The fourth part discusses the impact of these practices on the company's overall performance. It notes that accurate record-keeping leads to better decision-making and improved financial stability.

5. The final part concludes by reiterating the commitment to transparency and accuracy in all financial reporting. It expresses confidence in the company's ability to maintain high standards of financial integrity.



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Newsletter

June 20, 1984
Vol 23 No 41

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Staff Commission to advocate positive change

With three formal meetings behind it, the Commission on Classified Staff Affairs is gearing up to establish goals for what it would like to accomplish for the University's more than 3,000 classified employees.

Commission chairman Jane Kidd, assistant director for special projects in University Relations, and vice chairman Gary Pringle, superintendent of buildings in the Physical Plant Division, agree that commission members are "very optimistic" about what they may be able to do.

"Just the existence of the commission is a good beginning," says Kidd. "For the classified employees to have a specific group to go to when they need help -- that's invaluable."

Following the first meeting, on May 15, the commission sent a letter to all of the University's classified staff employees. The letter outlined the duties of the commission, named the commission members, and explained how employees can communicate with their representatives.

The commission, as charged by President Bill Atchley, will study University-wide issues that have a direct impact on classified staff employees, such as welfare policies, the development of job and supervisory skills, compensation and benefits, and other areas of concern brought to the commission.

"Issues brought to the attention of the commission should be relevant to the University at large," says Kidd. "Generally speaking, the commission will not be a medium for handling personal grievances, although it will handle on a case-by-case basis all problems brought to its attention."

The commission, which defines itself as a group with the mission of promoting positive change, has already identified several possible goals:

- work toward increased recognition and participation of classified employees in faculty-staff meetings held each semester and in faculty-staff orientation held annually in August;

- promote an atmosphere which encourages classified employees to attend campus events and activities;

- ensure that classified employees receive all communications that may be of interest to or applicable to them, including all University news publications;

- support seminars for classified employees on such matters as the procedure for filing grievances and the development of job and supervisory skills; and

- use, on an interim basis, the *Newsletter* as the official organ for communication, while working toward having either a staff newsletter or special editions of the *Newsletter* devoted exclusively to staff concerns.

"Our intent is not to draw divisional lines," says Kidd. "I see the commission rather as an advocacy group for classified employees. What's good for them is good for the University, so actually we'll be working to bring about positive change for everyone."

The commission is now busy drawing up a constitution and procedural by-laws. The Constitution and Bylaws Committee is chaired by Paul Gable, business and finance analyst in Extension administration. Other members of that committee are Pat Durham, a secretary in building sciences, and ex-officio members Ron Herrin, director of payroll and employee benefits, and Ray Thompson, director of personnel. (See Page 2 for photos of all commission members.)

The commission meets on the second Tuesday of each month at 10 a.m. in the Jordan Room of Jordan Hall. If you have an issue you would like to bring to the attention of the commission, put it in writing and send it to the Commission on Classified Staff Affairs.

You may send it through inter-office mail to Box 2121, University Station; or through the U.S. Postal Service, P.O. Box 2121, Clemson University, Clemson, S.C., 29632.

New head named for history

By Dorrie Harlee

Fulfilling a 10-year commitment, Prof. Alan Schaffer is stepping down as head of the history department, and filling that position July 1 will be John R. Wunder, an associate professor of history and law at Texas Technical University.

"I promised to be head of this department for 10 years, and this is my 10th," says Schaffer. "I always try to keep my promises. I love Clemson and have no intentions of leaving."

Schaffer has received a grant to research the South Carolina State Hospital, which has papers dating back to 1825.

(Continued on page 3.)

Sixth nominee earns Fulbright

"Six for six" is the rallying cry around campus these days, but it has nothing to do with a hitting streak in baseball.

The University community is cheering because the sixth Clemson student nominated for a prestigious Fulbright scholarship to Europe has received confirmation of her award.

Katherine Cole, a language major, has earned that she will spend next year as Fulbright Scholar in Paris, teaching English to French students. Cole joins five of her classmates, all May graduates, who have received Fulbrights to study in Germany.

To have 100 percent -- six out of six

-- nominees from one institution recommended for awards was called "phenomenal" by Georgette Gelorimini, spokeswoman for the Fulbright Foundation.

"I've never heard of a school having a 100 percent recommendation rate," she said. "Even Harvard and Yale didn't have that kind of percentage."

The other five Fulbright Scholars are Russell Caldwell of Crosswicks, N.J., a German and history major; Kathy Heinsohn of Folly Beach, zoology; Annette House of Sumter and Moorestown, N.J., textile chemistry; Deborah Savage of Columbia, chemical engineering; and Nancy Snow of Greenville, political science.

Classified Staff Commission



Alice Allen



Emma Lee Barber



Pat Durham



Martin Fowler



Paul Gable Jr.



Diane Haseltine



Ron Herrin



Jane Kidd



Marty Koldyke



Gary McCombs



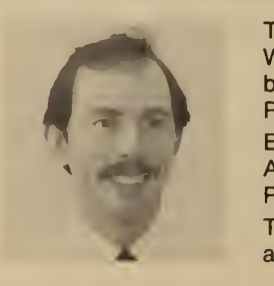
Gary Pringle



Ray Thompson



Flora Walker



The Clemson University Newsletter is published for Mary Watkins, assistant director of housing, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie

Assistant Editor _____ Joyce D. Barrett

Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

(Continued from page 1.)



Wunder

"Some people have joked that it's appropriate for the head of a history department to research a mental hospital," he says. But despite the jests, Schaffer is looking forward to his research, teaching, and writing.

He is also looking forward to welcoming the new department head. Wunder, 38, received his bachelor's, master's, and Doctor of Laws degrees from the University of Iowa. He then earned his doctorate in history from the University of Washington.

Wunder's teaching experience led him from Lewis and Clark College in Portland, Ore., to Case Western Reserve University, Columbia University, and most recently, Texas Technical University.

He has received numerous grants and awards, including the American Bar Association's 1981 Award of Merit and Phi Alpha Theta's 1980 Outstanding History Faculty Award for Excellence in Teaching. He has published numerous articles in scholarly journals and other publications.

Wunder was the chairman of the Legal Studies Program at Case Western Reserve University and the director of the Ethnic Studies Program at Texas Technical University, where he was the associate editor and secretary/treasurer of the journal *Ethnohistory*.

From a field of 60, narrowed to 10 and then to three, Wunder was selected by a committee headed by liberal arts Dean Bob Waller. "The three men came to campus, and Wunder impressed everyone on his mastery of history and his

administrative abilities," Waller said. "Alan Schaffer should be complimented for his decade of service and leadership to the department, and I'm looking forward to another productive department under the lead of Wunder."

Batson to lead Pickens County Extension

Mary Batson has been named Extension Service leader for Pickens County, says Extension director Wayne



Batson

T. O'Dell. As county leader, Batson coordinates Extension programs in agriculture, community and youth development and home economics.

A native of Greenville, Batson has a bachelor's degree in home economics from Winthrop College. She did graduate work in home economics at Clemson, Furman University and the University of South Carolina.

She has worked with Extension three times during her career. The first was in the late 1940s when she was a home economist in the Anderson County office. She worked with the Pickens County office in the early 1950s and joined the Greenville County staff in 1969. She was promoted to associate leader in 1970 when she transferred to the Pickens office.

"I'm very familiar with the operations of the Extension program in Pickens, but the job of county leader will certainly be a challenge. I'm looking forward to it," she said.

Batson succeeds Emory Jones, who is now Extension Service leader for Greenville County.

Secretary finds the Lebanese to be 'warm and generous'

By Colleen Murphy

Editor's Note: The following article was written as a class assignment in English 334, a course in news feature writing taught by Bob Lamb, an instructor of journalism. The article is printed with the author's permission.

People are always wishing they had a little more adventure in their lives, but sometimes a little adventure goes a long way, as Betsy Gourlay will be the first to admit.

Gourlay, a secretary in the accounting department, returned last September from Beirut, Lebanon. She had lived there for a year with her husband, Gordon, who had taken a job as the assistant reference librarian at the Beirut University College.

"Gordon took the job because he thought it would be a good experience," Gourlay said.

From the start, the experience did, indeed, promise to be good, as the Gourlays' first impression of Beirut was excellent.

"They are a warm and welcoming people," she said. "When we arrived, an apartment was ready for us on campus. It was completely furnished, with towels in the closet, sheets on the beds, and food in the refrigerator. They even had a crib made up for Sean (her son). Everything was ready so that we could just collapse if we wanted to."

Five months pregnant at the time, Gourlay probably wanted to.

And, it wasn't long before less desirable conditions began to surface.

For periods of time there was no hot water, and the Gourlays had to boil water for bathing. Moreover, the water, loaded with salt, left a grimy film on the body. "I felt like I'd never be really clean again," Gourlay said.

The telephone system, too, left much to be desired. Placing a local call sometimes took as long as 15 minutes.

Reach out and touch Videotex

What in the Clemson world is going on around here? If you'd really like to now, try reaching out and touching a Videotex terminal.

Videotex, a new computerized communications technology that is being put to work right here, will help keep you "in the know" about news and events on campus, from workshops and lectures to films, concerts, sports and the latest weather information.

Videotex terminals are in Harcombe Dining Hall, the loggia, the P&A Building, Ag Sales, and the Computer Center.

Try one.

(Continued on page 4.)

(Continued from page 3.)

The campus of the university was one of the few "green spots" in the city, said Gourlay, and many residents use it as a park for their children to play in. The major portion of West Beirut is filled with dust, dirt, and concrete. There are no sidewalks, and people "drive like maniacs," said Gourlay, noting, however, that one rarely sees an accident.

"Shopping is done in either small shops or 'large' supermarkets, they being about the size of an average Seven-Eleven store," she said. "You buy fruits and vegetables from small stands outside the stores. Prices are not marked, so it paid to know the owner of the stand well."

There was no fighting in the city when the Gourlays first arrived in Beirut, but car bombs were commonplace. The first week in February a car exploded one block from the university, killing several students.

Gourlay's husband had just started the first children's library at B.U.C., and one little boy was thrilled to be the first child to receive a library card. He was killed by a car bomb two days later.

In August of 1983, the airport closed down, one of the first signs of real trouble, said Gourlay.

"We listened to the B.B.C. (British Broadcasting Company) every hour. It told you about any evacuations or if you were in danger."

The sounds of distant shelling were a daily fact of life for Beirut residents. "People sat out on their balconies in the evenings listening," Gourlay said.

On Tuesday, Aug. 30, the sounds grew louder and seemed closer to the city. When a neighbor saw a shell pass directly over the Gourlays' apartment, they decided it was time to go to the bomb shelter.

The bomb shelter was located three

flights underground in the basement of the fine arts building on campus. All faculty and administrators had access, as did anyone who lived close by.

Gourlay carried her sons Sean (then two) and Robin (then four months old) and a supply bag to the safety of the shelter, not an easy task for a woman who weighs under 100 pounds.

"My first impression was, 'Hey, this is okay; you can't even hear the shelling from down here,'" Gourlay said. "But by the next morning we could hear it, so we knew things were worse."

At the peak of the shelling, about 100 people had gathered in the shelter.

What do people do in a bomb shelter? Well, in this case the shelter doubled as the audio visual studio for the university, so everyone could watch the news on television. They also watched "Guess Who's Coming to Dinner" on the video-cassette player.

"The adults sat around looking stunned," said Gourlay, "but the children had a great time."

The university's director of administration kept them informed of the events outside the shelter. First came the bombing of the library, and, luckily, Gourlay's husband wasn't in there -- he was heading toward the shelter in the fine arts building. Although he ducked behind the shelter for safety, he was struck by flying concrete.

"His back and shoulders ached," Gourlay said, "but at least he wasn't seriously injured."

The next shell hit the fine arts building itself. "That building didn't even shake," Gourlay said. "Those buildings are built sturdily. I mean a normal apartment would have been flattened."

The third shell hit a car off-campus, exploding and setting three other cars on fire. The fire spread to the faculty apartment building, which was connected to the bomb shelter by a tunnel. Smoke

poured in, but the fire did not spread further.

"That night we watched the news, but the news lied," said Gourlay. "All they said, in effect, was, 'Hurray for the army,' and that it had recaptured the city. No one believed them."

Gourlay said that because there are so many factions in Beirut, no one knows who's shelling whom. The buildings could have been shelled by the Lebanese army itself.

A week after the shelling incident, Gourlay was watching the news when it was abruptly cut off. In its place appeared a woman singing in Arabic.

Gourlay discovered the next day that the television studio had been shelled so the programmers simply put a tape on and left for a bomb shelter.

Two weeks after the shelling, non-essential Embassy personnel and their dependents left aboard helicopters supplied by American Marines. The Lebanese left in droves on a ferry that took them to Cyprus.

"The ferries are made to accommodate about 750 people, and they were packing about 2,000 to a boat," said Gourlay, who, with her husband and two children, also left for Cyprus.

From Cyprus, Gourlay and the two children continued to London and New York, finally reaching Washington, D.C., where her parents live. Her husband after a short stay in Cyprus, returned to Beirut, where he remained until the semester was over in June.

"The best thing about Lebanon was the people," Gourlay said. "They are giving and generous. When I had Robin people I hardly knew brought gifts and flowers to the hospital. The average citizens handle things fantastically. If their apartment is ruined, they go out and get another one. If the street is bombed they are out sweeping up the next day. They deserve better than what they are getting."



Newsletter

JUN 21 1984

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

This calendar is prepared up to a month in advance.
Please notify the Department of Publications and Graphics
Services, 103 Fike, 656-2467, as soon as possible
of any campus event that should be listed.

June 22-29**SEMINARS AND WORKSHOPS**

- 22 Seminar for Secondary School Social Science Teachers. Leland Bandy, Washington correspondent for The State, talks about "The Washington Press Corps" at 9 a.m.; S.C. Sen. Liz Patterson talks about "How to Organize a Local Political Campaign" at 1:30 p.m.; U.S. Sen. Strom Thurmond talks about "Importance of Education to the United States" at 6:30 p.m. Sponsored by Thurmond Institute, 108 Strode Tower. Call 656-3122 for more information.
- 24-30 1984 Summer Science Program. Sponsored by College of Liberal Arts and College of Sciences. For middle and high school students with a general interest in science. Call 656-3210 for more information.
- 25-July 6 Clemson Career Workshop for Minority Students. Sponsored by Continuing Engineering Education. Two-week session for high school students just finishing their sophomore year to study such fields as computers, engineering and marketing. Call 656-3308 for more information.

CAMPS

- 24-30 Camp Sertoma for underprivileged children. Sponsored by S.C. Sertoma Club, parks, recreation, and tourism department and Clemson Outdoor Laboratory. Call 646-7502 for more information.
- 24-30 Camp Hope for mentally retarded 13-18 years. Sponsored by S.C. Jaycees, parks, recreation, and tourism department and Clemson Outdoor Laboratory. Call 646-7502 for more information.

OTHER EVENTS

- 22 Examinations.
- 22-Aug. 15 Exhibit: "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
- 25-26 Orientation for students, special transfer session.
- 26 Registration for second summer session.
- 27 Classes begin.
- 28-29 Orientation for students.

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Newsletter

June 27, 1984
Vol 23, No 42

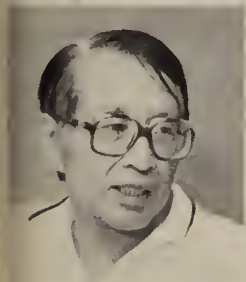
INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Clemson gets \$231,000 grant to further robot research

Imagine trying to open a jar with only one hand and you'll understand one of the big limitations of industrial robots.

Although robots are great at performing such simple, repetitive jobs as moving a piece of equipment from point A to point B, their use in industry has been limited by their inability to work together on more difficult tasks.

John Luh, Quattlebaum Professor of Electrical and Computer Engineering here, has devised a unique, three-phase plan to conquer the problem of coordinating robots and has received a \$231,000 grant from the U.S. Defense Department to put the plan into practice. The research could open up a new world of applications for mechanical workers.



Luh

"The real use of robots in industry will be in labor-intensive tasks -- parts assembly, for example," Luh says. "One robot is not adequate to do the job, and two can do it only if they can work together, just as a human often needs both hands working together."

Drawing on past research in computing movement, designing collision-free work paths, and controlling arm joint rotation in single robots, the former Honeywell and IBM engineer came up with an approach that includes an intermediate step between single robots working alone and the final objective of two robots working as one.

Phase one involves coordinating robots as they alternately perform a task

then stand still while the other works. In phase two the robots move simultaneously, which will speed work and increase productivity significantly. But unlike many efforts to coordinate robots, Luh's plan doesn't treat the mechanical devices as equals.

"With my approach, one robot is assigned the role of primer and the other the role of helper," Luh says. "This is similar to the way humans work. One hand is always dominant."

Sensors on the robots will track the movements and feed information to a computer programmed to figure out and tell the robots how to proceed. They'll also help the robots deal with a problem single mechanical workers don't have -- what to do with excess capability.

"When a person picks up an object, he or she automatically reduces effort if it's not as heavy as expected," Luh says. "A person knows when to use and not use certain joints and muscles. Robots don't."

In phase three, Luh will tackle the delicate problems encountered when two robots come in direct contact or both touch the same object. The sensors and computer programs will have to help the robots make adjustments for dexterity, rotation, heaviness and dozens of other factors.

Through the grant, Luh will purchase two Unimation PUMA-560 robots, two sensing wrists, a machine vision system, special arithmetic computer hardware to speed computations and several smaller pieces of equipment.

Pearson succeeds Dean McClure

Architect and educator Paul David Pearson will succeed Harlan McClure, who retires this summer as the first and, so far, only dean of the state's only College of Architecture.

Pearson, a native of Greenville, is a professor at City College of New York's School of Architecture and Environmental Studies. Educated in the public schools of Greenville and Clinton, he is

a Georgia Tech graduate with a master's degree from Columbia University. His doctorate is from the University of London's Bartlett School of Architecture and Planning.

Pearson is a practicing architect as well as the coordinator of CCNY's design studio for first through fifth-year architecture students.

Provost David Maxwell called him "a scholar of distinction." He is the author of a book on Alvar Aalto, the Finnish architect who is considered a giant of modern architecture and one of the most famous practitioners of the "international style."

"Finding someone to follow in the footsteps of Harlan McClure was no easy task," Maxwell said, referring to the man who, in 25 years, built the University's architecture school from the ground floor into one of the nation's best in ratings by the American Institute of Architects and others. "In Dr. Pearson, however, we think we've found an outstanding architect, scholar and educator."

Pearson was one of three candidates recommended from a field of 39 applicants and nominees by a search committee headed by Prof. Ralph Knowland, head of building sciences.

"Pearson was a very highly qualified contender for the position," said Knowland. "Under his leadership we anticipate a long period of continued growth and excellence in architectural education."

Hanvey helped to improve McCormick housing

When Clara Hanvey retires June 30 as the McCormick Extension leader, she does so knowing that in recent years the office she led has helped ease one of the county's most pressing problems.

When she came to McCormick in the late 1940s, she says, the housing situation was so tight a newcomer practically had to beg for a place to stay.

"For years I had been vaguely aware there was a housing shortage here," she says, "but until I started work for Extension in 1970 as a home economist, I had

(Continued on page 2.)

(Continued from page 1.)

no idea of the conditions under which some of our people were living."

She resolved to devote as much of her energy as possible to alleviating the housing problem and improving living conditions for low income residents of the county.

For more than a dozen years she has been an active member of the McCormick Committee for Housing for the Aging, a group that coordinated a community project to obtain public housing for elderly and low-income persons.

The effort produced 120 housing units in three McCormick complexes. "People literally came out of the woods to fill them," Hanvey says. Community development and expanded food and nutrition education programs administered by Extension helped low-income McCormick residents adjust to rapid social and economic changes.

The county's small size, small population and extremely high unemployment rate have created special needs for its people.

"Working on the inside, I saw Extension as the best agency for meeting many of those needs," she says. "In recent years the county has made measurable educational advances. I've found the part Extension played in the overall effort extremely rewarding, very satisfying," she says.

A native of Greenwood County, Hanvey never planned a career in Extension. After earning a degree in home economics from Lander College, she taught in Laurens and McCormick counties before marrying and raising five children.

"The children were active in 4-H, and I kept bumping into former Extension leader Joe Meredith," she says. "The Extension office had an opening for a home economist, and he kept urging me to apply for it." She began work in 1970 and was promoted to leader in 1979, when Meredith retired.



Hanvey

After retirement she plans to "clean up the house, visit the children in four southeastern states and travel to Europe."

may come first. Her husband is considering a job as a textile consultant in Columbia, South America.



Gray

New head chosen for education

Education Prof. Gordon W. Gray, director of developmental studies, has been named to head the elementary and secondary education department, succeeding Ernest Kozma who is returning to full-time teaching and research within the department.

In making the announcement, education Dean James Matthews said, "Gray has been recognized as an excellent professor and educator by students, fellow faculty members, and public school personnel. He has brought great credit to Clemson University and exemplifies the best qualities of an outstanding Clemson administrator."

Gray earned his bachelor's degree in physical education and English and his master's degree in reading from East Tennessee State University. He received his doctorate in reading from the University of Tennessee and came to Clemson in 1968.

Here, Gray organized the Clemson Reading Conference, which has become the largest professional reading meeting in the Southeast and which annually brings to the campus the nation's experts in the field of reading.

He has been instrumental in organizing developmental education courses for undergraduate students in the areas of reading improvement and study skills.



The Clemson University Newsletter is published for Russell Martin, custodial worker in Fike Recreation Center, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

More recently, he was responsible for the establishment of the Learning Resources Laboratory, which uses microcomputers to assist students with reading or mathematical deficiencies.

He has served as consultant, advisee, evaluator, or director to more than 40 public school and college programs throughout the Southeast. An active contributor to his profession, he has published widely and was co-author of the Scott-Foresman *Basics in Reading* series. He has presented invited lectures at international conferences in Ireland and Finland.

Gray's appointment as head becomes effective July 1.

Be certain they have you covered

Faculty and staff members planning to travel outside the United States, its possessions or territories on business take note: You will not automatically be covered by the University's employee tort liability insurance policy.

However, there's a simple procedure to ensure that coverage, says Lind Sanders, risk manager in the Office of Business Services.

"When you send a memorandum to your vice president requesting approval for travel outside the country, please send me a copy so that the insurance coverage can be obtained."

The information she needs, along with the memo, is your name, the date(s) you plan to travel and the name of the country(ies) to which you plan to travel.

For more information on employee tort liability insurance, call Sanders at 656-2441.

Fall freshmen will include Merit Scholars

Three National Merit Scholars will be among the entering freshmen here in August. The students are three of 5,500 high school seniors nationwide to receive a total of \$19 million in merit scholarships.

The Clemson Merit Scholars are:

-- Kelly M. Callahan, daughter of Mr. and Mrs. Dan F. Callahan of Lexington. Callahan is a Governor's School alternate, a Columbia College Trustee Scholar and a member of the National Honor Society.

-- David R. Earnhart, son of Mr. and Mrs. C. Reid Earnhart of Lugoff. Earnhart was valedictorian of his high school graduating class, president of his high school student council and a member of the Beta Club.

-- Lisa C. Robinette, daughter of Mr. and Mrs. Oren J. Robinette Jr. of Pacolet. She is a Brown University Book Award winner, a Furman Scholar, a Presbyterian Junior Fellow and a member of the Cum Laude Society.

Each winner of a merit scholarship financed by a college or university must attend the sponsor institution in order to receive the award. Some 200 of the nation's higher education institutions in more than 40 states have committed more than \$9 million for this year's scholarships. Individual stipends range from \$1,000 to \$8,000 over four years.

More than one million high school students from across the nation entered the 1984 Merit Program by taking the PSAT/NMSQT test. The 13,500 top scorers advanced to finalist standing after meeting additional requirements, including documenting high academic performance, substantiating qualifying test scores on another test and receiving recommendations from their high school principals.

Clemson presents research award

The 1984 Clemson Award in Bioengineering, the highest honor of its kind which recognizes outstanding research, was recently presented to three researchers at the International Biomaterials Symposium in Washington, D.C.

Allan S. Hoffman, of the University of Washington at Seattle, was recognized for his contributions in biomaterials.

The award for basic research was presented to Otto Wichterle for his contributions to the research of soft contact lenses. He is the director and founder of the Institute of Macromolecular Science at the Technical University in Prague, Czechoslovakia.

Vincent Lynn Gott, was recognized for significant contributions to biomaterials in cardiac surgery. He is a professor of surgery at Johns Hopkins University School of Medicine and cardiac surgeon in charge at Johns Hopkins hospital.

Departmental Notes

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

AGRICULTURAL ECONOMICS & RURAL SOCIOLOGY

B.L. Dillman (Prof) discussed a paper, "Agricultural Districts and Retention of Prime Farmland," at a conference on Land Retention in the Southeast, sponsored by the Tennessee Valley Authority, Southern Natural Resource Economics Committee, Southern Rural Development Center, and Farm Foundation, Knoxville, Tenn., March 22-23.

J.C. Hite (Alumni Prof) was elected president of the Southern Regional Science Association at its annual meeting in Orlando, Fla., May 2-4.

S.E. Miller (Assoc Prof) has had the following papers accepted for publication:

"Confidence Intervals for Elasticities and Flexibilities From Linear Equations" written with G.J. Wells (Assoc Prof) and O. Capps (Va Tech) in the *American Journal of Agricultural Economics*;

"Cross Hedging Rice Bran and Millfeed" written with E. Elam (Univ of Ark) in *Rice Situation*;

"Simple and Multiple Cross-Hedging of Wheat Millfeeds" in the *Journal of Futures Markets*; and

"Discussion: Methods for Evaluating Economic Efficiency in Agricultural Marketing" in the *Southern Journal of Agricultural Economics*.

B.H. Robinson (Prof and Hd) presented a paper, "Fifty Years of Farm Policy: What Have We Learned?" at the annual meeting of the American Association for the Advancement of Science in New York City, N.Y., May 25-27.

Prof. Robinson served on a Southern Association of Colleges and Schools Reaffirmation Committee Review Team for Texas Tech University, Lubbock, Texas, April 8-14. He also served on a CSRS Review Team for the economics and business department at N.C. State University, Raleigh, N.C., April 17-19.

ANIMAL SCIENCE

J.R. Diehl (Assoc Prof) had a paper, "Efficacy of Using Vaginal Conductivity as an Indicator of Optimum Time to Breed in Swine," accepted for publication in the *Journal of Animal Science*.

Prof. Diehl had an abstract, "Effects of Altrenogest Alone or in Combination With PMS and HCG on Ovulation Rate and Fertility in the NIH Minipig," presented at the 10th International Congress on Artificial Reproduction and Artificial Insemination, at the University of Illinois June 10-14. The abstract will be published in the Proceedings of the meeting.

Prof. Diehl has been invited to work at the National Cancer Institute on an Inter-governmental Personnel Act assignment from June-December, 1984. He has also been appointed as a research associate with the Smithsonian Institute.

BIOLOGICAL SCIENCES

R.L. Hays (Prof) published "Phasic Distribution of Seminiferous Tubules in Rats Treated with Triphenyltin Compounds" in *Bulletin Environmental Contamination and Toxicology* (1983) 658-665, and reviewed J.D. Cunningham's "Human Biology" in the *Journal of College Science Teaching*, 13 (1984).

G.P. Noblet (Assoc Prof) and D.E. Kyle (Grad Asst) wrote a paper, "Distribution of Small Free-Living Amoebae in Benthic Planktonic and Neustonic Habitats," and Kyle presented the paper at the annual meeting of the Southeastern Society of Parasitologists at the University of Tennessee in Memphis, April 13-14;

At that meeting Prof. Noblet, who had completed a term as vice president of the society, was elected president-elect for 1984-85; and Kyle received the E.E. Byrd award for the outstanding graduate student presentation.

Prof. Noblet presented an invited seminar, "Distribution and Potential Pathogenicity of Thermotolerant *Naegleria* and *Acanthamoeba*" to the faculty of parasitology, at the University of Georgia in Athens, March 8.

The following papers were presented at the 1983 Annual Meeting of the American Society of Zoologists in Philadelphia, Pa., in December:

-- "Biochemical Analysis and Cellular Origin of Uterine Histotrophe During Early Gestation of the Viviparous Butterfly Ray;" by J.P. Wourms (Prof) and A.B. Bodine (Assoc Prof, Dairy Sci);

-- "Branchial Placenta and Embryonic Growth in the Viviparous Fish, *Jenynsia*" by J. Richter (Former Undergrad Stu), J. Lombardi (Former Grad Stu) and Prof. Wourms;

-- "The Role of the Follicle in Maternal-Embryonic Nutrient Exchange in the Viviparous Fish, *Heterandria formosa*" by B. Grove (Grad Stu) and Prof. Wourms;

Prof. Wourms and Grove presented a paper, "Endocytosis of Molecular Tracers by Embryos of the Viviparous Fish, *Heterandria formosa*," at the Twenty-third Annual Meeting of the American Society of Cell Biology in San Antonio, Texas.

Prof. Wourms was elected secretary of the Division of Cell and Developmental Biology of the American Society

(Continued on page 6.)

Library displays memories of 'the way we were'

By Karen Colloca

A lot of memories light up the corners of the Special Collections Unit of the Cooper Library, and its current display with more than 20 old photographs gives a glimpse into the past, showing us the way we were back in the early 1900s.

Michael Kohl, head of Special Collections, says, "We encourage anyone who is interested in this sort of history or anything else relating to the University

to come by the library and look over the picture books and displays."

The pictures in the display show not only some department scenes at the turn of the century, but also the functions of those departments that made them so special.

Many of the photos show the faculty and students at work in classrooms or laboratories, thus giving the viewer an excellent idea about what Clemson Col-

lege life was like back then.

From the outdoor shots, you can ever get an idea of how the campus looked in 1917. However, it might be a challenge for a current student or professor to guess where these pictures were taken, because the campus was so different in those days.

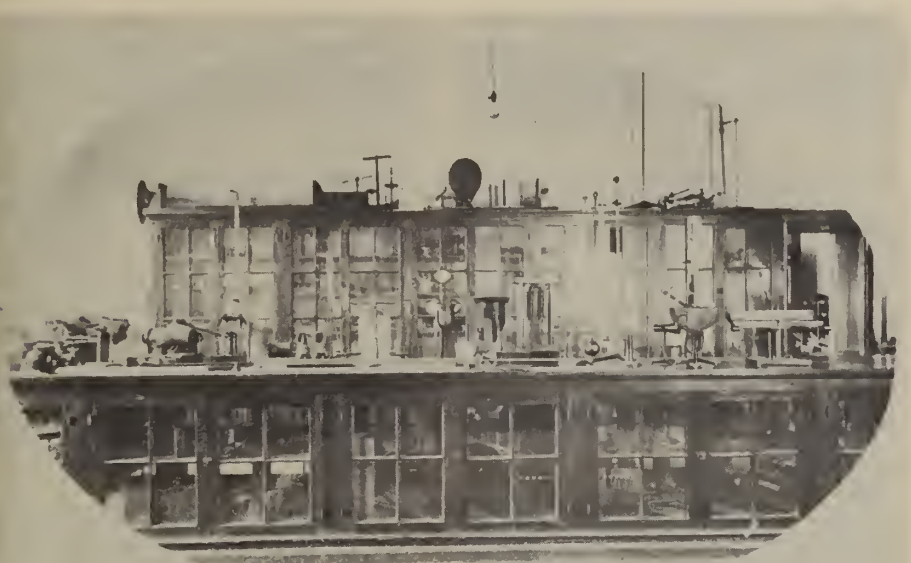
If you have a chance to drop by Special Collections and compare the way we were with the way we are now, you may be in for a pleasant surprise.



Extension Train -- From its earliest beginnings, the University has had as one of its primary missions the promotion and development of scientific agriculture in South Carolina. During the 1900s, the "College Car" spread information about scientific farming throughout the state. The Southern Railroad equipped a special car with an exhibit hall, living quarters and work area. Extension staff members traveled around the state in this car, giving lectures to farmers, providing exhibits to school children, and furnishing demonstrations of new agricultural methods.

Cotton picking room -- Clemson has played an important role in the development of the textile industry in South Carolina. The school's students have gained the technical expertise that has helped transform South Carolina into a leading textiles center. The University has not only provided the management and engineering expertise for this industry, but has also taught the workers that basic skills required in the mills. Long before vocational schools were developed statewide, the Extension Service was teaching South Carolinians how to operate machinery, run industrial sewing machines, and do business math. Here, students are shown working the cotton picking room of the old textiles building, which is now Godfrey Hall.





Sciences laboratory -- *The University has always stressed the need for a technical education to be grounded on the basis of scientific theory. Teaching subjects such as chemistry, physics, and mathematics has changed dramatically since Clemson began. Part of the changes have stemmed from increasingly sophisticated equipment. Courses have also changed, with more emphasis upon independent research. Here, we get a look at one of the old physics labs that was used in 1917.*



Veterinary services -- *During its early years, Clemson had a veterinarian on staff who helped care for the College's cattle. This operation on a horse is witnessed by interested students and staff members. Although the institution never developed a School of Veterinary Science, the College of Engineering has developed an outstanding program that has made significant contributions to the field of joint replacement.*

(Continued from page 3.)

of Zoologists, and he was elected a Fellow of the Explorer's Club. The Explorer's Club, founded in 1904, is an educational and scientific institution dedicated to the search for new knowledge of the earth and outer space.

CHEMISTRY

R.A. Abramovitch (Prof) gave an invited seminar, "Sigmatropic Rearrangements of Heteroaromatic N -Oxides" at the University of Rouen, March 22;

Prof. Abramovitch attended an international symposium on "Sphingolipids, Sphingolipid Disorders and Demyelinating Disease" held in honor of Prof. D. Shapiro's 80th birthday at the Weizmann Institute of Science in Rehovoth, Israel, April 1-4;

Prof. Abramovitch gave a seminar on "Enium Ions" at Roussel-Uclaf, in Romainville, France, April 13.

D.D. DesMarteau (Prof and Hd) presented an invited lecture, "Chemistry in the Dark. Novel Fluorochemicals Derived From Carbon-Nitrogen Multiple Bonds," at Virginia Polytechnic Institute and State University in Blacksburg, Va., in April.

K. Dill (Asst Prof) and R.L. Batstone-Cunningham (Former Vstg. Instr) published an article, "Magnetic Resonance Study of ^{13}C -Enriched Glycophorin A Reconstituted into Phospholipid Vesicles," in the *International Journal of Biological Macromolecules*, 6 (1984) 108-110.

J.D. Petersen (Assoc Prof and Assoc Dean) gave a talk on "Intramolecular Energy Transfer Reactions in Polymetallic Complexes. A Possible Route to Solar Energy Conversion" at the 1984 meeting of the Western Carolina Section of the American Chemical Society at Western Carolina University in Cullowhee, N.C., May 8.

A.R. Pinder (Calhoun Prof) gave an invited lecture, "Recent Developments in the Chemistry of Natural Flavors," at the annual meeting of the Florida Section, American Chemical Society in Lakeland, Fla., May 11.

T. Tissue (Assoc Prof) and D. Fingleton (Argonne National Lab) published an invited chapter, "Atmospheric Inputs and the Dynamics of Trace Elements in Lake Michigan."

Prof. Tissue has received a Visiting Fellow appointment at the School of Applied Physics and Geosciences, Western Australian Institute of Technology in Perth, Australia, June 1-July 15. He will be collaborating with B. O'Conner (Prof and Hd) on X-ray fluorescence determinations of trace elements in rocks and atmospheric particulate matter.

Prof. Tissue, B.M. Lesht (Phys, Argonne National Labs) presented a paper, "An

Automated Benthic Boundary Layer Sampler (ABBLS)," at the 1984 meeting of the International Association for Great Lakes Research, Brock University, St. Catherine's, in Ontario, Canada, May 1.

Prof. Tissue and four graduate students conducted a research cruise aboard the research vessel *Shennehon* in southern Lake Michigan. They collected samples for analyses of Zn, the fallout isotope Cd-113M, and for studies of sediment-water exchange processes. The research was sponsored by the National Oceanographic and Atmospheric Administration's Great Lakes Environmental Research Laboratory.

COMPUTER SCIENCE

D.E. Stevenson (Asst Prof) presented a paper, "Modeler's Workbenches: Concepts for Developing Friendly Simulation Systems," at the 1984 ACM South-eastern Regional Conference in Atlanta, Ga., April 25-27.

ENGLISH

J.L. Idol (Prof) attended a planning session of the Philological Association of the Carolinas at Wake Forest University May 16 and a meeting of the Thomas Wolfe Society at St. Mary's College in Raleigh, N.C., May 18-20. He served as program organizer for the Wolfe Conference and was selected to edit the Wolfe Society's publication for 1986.

Prof. Idol published a bibliographical note, "Fanshawe at an Early Auction," and a review of James O'Donald Mays' "Mr. Hawthorne Goes to England" in the *Hawthorne Society Newsletter*, (Spring 1984) 10-11. His article "Unveiling Wolfe's Angel" was published in *The Thomas Wolfe Review*, 8, No. 1 (1984), 1-4.

EXTENSION HOME ECONOMICS

L. Mahrer (Assoc Prof) published "Financing Housing: Innovative Systems" in *International Journal for Housing Science and Its Applications*, Vol. 8, No. 2.

E.S. Wiggins (Asst Prof) presented a workshop on Computer-Assisted Instruction at the Georgia Home Economics Association annual meeting at Jekyll Island, Ga., April 12.

Prof. Wiggins was initiated into Phi Kappa Phi as an outstanding alumnus of Winthrop College. Phi Kappa Phi is a scholastic honor society which recognizes academic achievement by distinction regardless of the field of endeavor. Each spring semester the Winthrop College chapter may select one outstanding alumnus for membership.

FOOD SCIENCE

The following papers were presented at the Federation of American Societies for Experimental Biology Annual Meet-

ing in St. Louis, Mo., April 1-6:

-- "Jejunioleal Bypass Surgery and Trace Mineral Status in Rats" by D.E. Turk (Prof), written with W.G. Vaughan and C.M. Snipes (Grad Assts); and

-- "Lipid Metabolism, Tissue Chromium and Atherosclerosis in Cockerels Fed Different Purified Carbohydrates" by R. F. Borgman (Prof), D.V. Maurice (Assoc Prof) and S.F. Lightsey (Res Spec).

The following papers were presented at the South Carolina Academy of Sciences meeting held in Charleston, S.C., March 30:

-- "Effect of Temperature on Protein Gelation of Natural Actomyosin" by J. C. Acton (Prof) and G.R. Ziegler (Former Grad Stu);

-- "Application of Colorimetry in Fresh Poultry Meat Tissues" by B.M. Bowie (Grad Res Asst) and Prof. Acton;

-- "Correlation of In Vitro Digestibility Analyses" by L.M. Breyer (Grad Res Asst) and Prof. Acton;

-- "The Effect of Fasting and Refeeding on the Functioning of the Rat Intestine" by S.S. Kim (Grad Asst) and D.E. Turk (Prof); and

-- "Direct Assay of Tannase Activity on Tea Extracts" by R.L. Thomas (Asst Prof).

Prof. Acton presented a paper, "Functional Properties of Raw Meat Materials" to the Meat Science Institute of the National Meat Association at the University of Georgia in Athens, March 18-21.

Prof. Turk has been appointed to a three-year term as an associate editor of the journal *Poultry Science*.

Prof. Thomas presented a talk on "Biotechnology in Food Production" at Erskine College, March 20.

R.F. Borgman (Prof) and D.M. Medeiros (Former Grad Asst) published a paper, "Blood Pressure in South Carolina Children: Dietary Aspects," in the *Journal of the Royal Society of Health* -104:68-70.

C.V. Morr (Stendor Prof) co-chaired a symposium, "Physical Chemical Basis of Protein Functionality," at the American Oil Chemists' Association Meeting in Dallas, Texas, April 29-May 2.

Also at that meeting, J.R. Brooks (Grad Asst) and Prof. Morr presented a paper, "Current Status of Soybean Protein Fractionation and Nomenclature."

HOUSING

Barbara Galloway of Pendleton received the Custodian of the Month Award for April. She was chosen for this award because of her attentiveness to duty, attitude and quality of work during the month. Ms. Galloway has been employed with the Housing Office since 1976.

LANGUAGES

G.J. Fernandez (Prof) published "Orbus Terrarum...La Ciudad de Humanitas. La fusion como tecnica novelistica" in *La Narrativa De Jose Sanchez Boudy (Tragedia Y Folklore)*, edited by Laurentino Suarez, Ediciones Universal, Miami, Fla., 1983.

MANAGEMENT

W.H. Hendrix (Assoc Prof) published "Effects of Stress on Individual Productivity, Absenteeism and Wellness" in the Proceedings of the Ninth Psychology in the Department of Defense Symposium, USAF Academy, Co., (April 1984) 305-308.

Prof. Hendrix presented a paper, "Factors Predictive of Stress, Organizational Effectiveness and Coronary Heart Disease Potential," at the 4th Annual Association of Aviation Medical Examiners Symposium in Oxford, England, April 27-29.

Prof. Hendrix, S.R. Rodriguez and A. Presley (OCHAMPUS) had a paper, "An Employee Directed Wellness Project: Further Findings From the OCHAMPUS Health Promotion Program," accepted for presentation at the Annual American Public Health Association meeting in Anaheim, Calif., Nov. 1984.

MATHEMATICAL SCIENCES

J.R. Brannan (Asst Prof), J.A. Reneke (Assoc Prof) and J. Waide (USAE Waterways Exp Sta, Vicksburg, Miss) published a paper, "A Diffusion Model of Forest Succession," in *Mathematical Biosciences*, (May 1984) Vol 69, 1.

K.T. Wallenius (Prof) has been awarded a \$99,897 contract by the Office of Naval Research (OUR) to research "Cost Realism Assessment." This increment to the Navy-supported research project, which began in 1971, brings the total contract budget to \$684,000. The project has been able to support, and has benefitted from the contributions of, eight colleagues in the mathematical sciences department as well as members of other departments, in addition to several visiting scholars and numerous graduate assistants.

PHYSICS AND ASTRONOMY

J.R. Ray and L.L. Samlley (Univ of Ala, Huntsville) published a paper, "Spinning Fluid Energy -- Momentumensors in the Einstein-Cartan Theory" in *Annual of the New York Academy of Science* Vol. 422 (1984) 378.

PLANT PATHOLOGY & PHYSIOLOGY

O.W. Barnett (Prof) and Z. Xu (Vstg Plnt Pthlgst) published "Identification of a Cucumber Mosaic Virus Strain From Naturally Infected Peanuts in China" in *Plant Disease*, 68, 386-389.

G.E. Carter Jr. (Assoc Prof) and M.B. Riley (Ag Sci Assoc) published "Dibromochloropropane Residues in Peaches Following Fall Orchard Fumigation" in *Journal of Agricultural and Food Chemistry*, (March-April, 1984), Vol. 32: 186-187.

G.C. Kingsland (Assoc Prof) published "Plant Diseases in the Republic of Seychelles" in *Tropical Pest Management* 29(4) 309-315.

E.I. Zehr (Prof) and the Technical Committee of the Regional S-97 Peach Rootstock Project published "Survival, Growth and Yield of Peach Trees as Affected by Rootstocks" in *HortScience* 19(1) 26-30.

Prof. Zehr, R.W. Miller (Prof) and C.S. Gorsuch (Assoc Prof, Ent, Fish, Wildlife Bio) published "Reduced Use of Fungicides and Insecticides on Peaches" in *Peach Times* 29(4) 6,8,14.

PLANT PEST REGULATORY SERVICE

D.S. Adams, (Pest Coord) presented "Pesticide Applicator Licensing in South Carolina" at the Carolina Arborists Workshop in Charlotte, N.C., April 17-18. The presentation included information on pesticide licensing and enforcement of the S.C. Pesticide Control Act and interfaced with the presentation of a North Carolina representative of individuals requiring licensing to apply pesticides in both states.

H.B. Jackson (Hd) presented a report on the "Boll Weevil Eradication Program in South Carolina" and chaired a panel discussion on "Federal-State Quarantine Compatability" at the Southern Plant Board meeting in Biloxi, Miss., April 17-19.

-- As chairman of the National Plant Board, Prof. Jackson attended the Eastern Plant Board meeting in Portland, Maine, April 10-12, and the Western Plant Board meeting in Seattle, Wash., April 24-26 where he presented the "National Plant Board Report."

POULTRY SCIENCE

R.J. Thurston (Assoc Prof) presented an invited paper, "Semen -- Its Biochemical and Cellular Properties and Storage Methods as Determinants of Its Fertilization Capacity" at the Seventh Technical Turkey Conference at the University of East Anglia, Norwich, England,

April 11.

The following papers were presented at the 68th Annual Meeting of the Federation of American Societies for Experimental Biology (FASEB) in St. Louis, Mo., April 1-9:

-- "Increase in Intestinal pH of Chickens Due to Cimetidine Injections" written by N.E. Ward (Grad Stu), J.E. Jones (Prof) and D.V. Maurice (Assoc Prof) and presented in the animal nutrition section by Prof. Ward;

-- "Does Aflatoxin B 1 Affect Cholecalciferol Metabolism" written by J.E. Whisenhunt (Grad Stu) and Prof. Maurice and presented in the nutritional biochemistry and metabolism section by Whisenhunt;

-- "Lipid Metabolism, Tissue Chromium and Atherosclerosis in Cockerels Fed Different Purified Carbohydrates" written by Prof. Maurice, R.F. Borgman (Prof, Food Sci) and S.F. Lightsey (Res Spec) and presented in the carbohydrates section by Prof. Maurice.

Prof. Maurice was elected to membership of the American Institute of Nutrition (AIN), one of the societies constituting FASEB. AIN is the primary professional organization of nutrition research scientists in the United States.

SOCIOLOGY

The following participated in the Southern Sociological Society annual meeting in Knoxville, Tenn., April 11-13:

-- K.W. Crader (Asst Prof) chaired a session, "Graduate Student Papers I";

-- C. A. Hope (Asst Prof) presented a paper, "Hunting in an Underdeveloped Economy: Crocodiles in Belize" and a poster, "Hides, Hunters, Dollars, and Dependency;"

-- Prof. Hope presented a paper, "Political-Economic Influence and the Use of Theory in Applied Sociology: The Case of Community Mental Health" for S. Kenig (Asst Prof); and

-- J.W. Ryan (Asst Prof) presented a paper, "Who Gets the Message? Television's Impact on Adolescent Occupational Aspirations."

UNIVERSITY UNION

E.P. Furman, (Asst Prog Dir) and B. Mandicott (Prog Dir) coordinated the National Association for Campus Activities, Southeast Regional Steering Committee and Conference Planning Committee hosted by Clemson June 2-6.

Mandicott was reappointed by the National Association of Campus Activities Board of Directors to serve as the Southeast Regional Treasurer for 1984-85.



Newsletter

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

*This calendar is prepared up to a month in advance.
Please send in writing to the Department of Publications and Graphics
Services, 103 Fike, any campus event that should be listed. You
may also want to call 656-2467 to check the Internal Communications'
master calendar for possible scheduling conflicts.*

June 29-July 6

WORKSHOPS AND SEMINARS

- 24-30 1984 Summer Science Program, for middle and high school students with a general interest in science. Sponsored by College of Liberal Arts and College of Sciences. Call 656-3210 for more information.
- 25-July 6 Clemson Career Workshop for Minority Students, a two-week session for high school students just finishing their sophomore year to study such fields as computers, engineering and marketing. Sponsored by Continuing Engineering Education. Call 656-3308 for more information.

EXHIBITS

- June-mid August "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
- July 2-Aug. 31 Summer Show, an exhibition of student work from all departments of the College of Architecture. Sponsored by College of Architecture and the Clemson Architectural Foundation, Monday-Friday, 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

CAMPS

- July 1-7 Camp Lions Den for the visually handicapped. Sponsored by Mid-Day Lions Club of Anderson and parks, recreation and tourism management department. Call 646-7502 for more information.
- July 1-7 Camp Hope, for the mentally retarded 8-15 years. Sponsored by S.C. Jaycees and parks, recreation and tourism management department, Clemson Outdoor Laboratory. Call 646-7502 for more information.

FILMS

- July 2 "The Last Picture Show." Sponsored by College of Liberal Arts, Y-Theatre, 7:30 p.m. Free. Call 656-3069 for more information.
- July 5 "Resurrection." Sponsored by the College of Liberal Arts, Y-Theatre, 7:30 p.m. Free. Call 656-3153 for more information.

OTHER EVENTS

- June-Aug. 15 "Dancing Aerobics." Sponsored by YMCA, YMCA Center, Monday, Wednesday and Friday, 9-10 a.m. and 5:30-6:30 p.m. Call 654-2361 for more information.
- July 2 Carolina Journal. Landon Miller, an associate professor of horticulture, talks about "Home Lawn Care." Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- July 4 Holiday.

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Centennial committee prepares for big celebration in 1989

Four score and fifteen years ago, Thomas Green Clemson and the leaders of government in South Carolina set forth upon these hills a new college, conceived as "a high seminary of learning" and dedicated to the proposition that the education of young people in the agricultural, mechanical and technical arts is essential to the economic and social prosperity and well-being of the state.

Or, put another way, the University is approaching its 100th birthday, and there's a committee at work making plans for a bang-up celebration.

President Bill Atchley has asked Vice Provost Jerry Reel to chair a 26-member panel charged with planning and coordinating centennial events. The committee is just beginning to get organized for its five-year mission, says Reel, adding that it will probably be next spring before the group begins to act on specifics.

"Certainly one of the key dates in the founding is Nov. 27, 1889, the date the state formally accepted Mr. Clemson's bequest," he says. "So, although people may not have their 1989 calendars handy yet, they might want to lock in Monday, Nov. 27, 1989, since that's sure to figure prominently in centennial events."

Atchley says he hopes all segments of the University -- students, alumni, faculty, staff, and all other Clemson supporters -- will become involved in and excited about the planning for the an-

niversary.

And he says the school's 100th birthday will be cause for celebration by all South Carolinians. "It will be a landmark day not only for those of us directly associated with the University, but for all of us who live in South Carolina and enjoy a better quality of life because of Thomas Clemson's vision and this institution's teaching, research and public service mission."

Reel, Pat Atchley, vice presidents Melvin Barnette (business and finance) and Don Elam (institutional advancement), and IPTAY executive director Joe Turner make up the planning committee's steering committee. The other members of the full planning committee are:

- Louis Batson, chairman of the Board of Trustees' Planning Committee;
- Wright Bryan, retired vice president for development;
- Walter Cox, vice president for student affairs;
- Beulah Cheney, director of publications and graphics services;
- Harry Durham, executive director of University relations;
- Robin Faulkner, a junior from Lexington, N.C.
- Horace Fleming, director of the Strom Thurmond Institute;
- Victor Hurst, retired vice president for academic affairs;
- Laura Anne "Lollie" Kearney, a

sophomore from Tampa, Fla., and the great-great-granddaughter of Ben Tillman (as in Tillman Hall);

-- Jane Kidd, assistant director of University relations for special projects;

-- E.M. "Whitey" Lander, retired Alumni Professor of History;

-- Barrett Lawrimore, Charleston County Extension agent leader and president of the Extension Senate;

-- Frank Mauldin, assistant to the president and director of the Office of Human Resources;

-- David Maxwell, provost and vice president for academic affairs;

-- Joe McDevitt, executive officer in the President's Office and secretary to the Board of Trustees;

-- George Moore, executive officer for alumni relations and resources development;

-- Bobby Robinson, associate athletic director;

-- T.L. Senn, retired head of the horticulture department;

-- Jack Stevenson, director of the Honors Program and chairman of the Scholarships and Awards Committee;

-- Mable Wynn, an assistant professor of parks, recreation and tourism management; and

-- Joe Young, a professor of architecture.

Computer crime law protects non-users

Even if you don't own a computer, or use one at work, you have a stake in South Carolina's new computer crime bill signed into law last month by Gov. Dick Riley.

The bill will help safeguard your privacy and property by making it a punishable offense to tamper with computers or the information stored by them, says Bill Weathers, a data processing administrator at the Computer Center, who helped write the legislation.

Weathers is a member of the Citizens Commission on High-Technology Crime, which was appointed by the state attorney general in May, 1983, to come up with a recommendation on computer crime legislation for the General Assembly.

"You don't have to own a computer to

(Continued on page 2.)

Health Appeal brings appealing results

University employees showed increased generosity to the Good Health Appeal this year by contributing \$10,497, a substantial increase over the 1983 total of \$6,500.

Assistant vice president for student affairs Nick Lomax, who chaired this year's appeal, says the increase in giving was result of the employees' "generosity" and not of any change in the manner of solicitation.

"President Atchley sent out a letter in April, which basically said that this way of giving is available to employees," says Lomax. "It is not considered a cam-

paign, as such, but rather a means of allowing people to contribute to their favorite charity. So, it was the people who made it successful."

The Good Health Appeal benefits 15 health agencies within the state by providing such services as screening programs, research, summer camps and educational literature.

Among these agencies are the March of Dimes Birth Defects Foundation, the Muscular Dystrophy Association, the National Society to Prevent Blindness and the Arthritis Foundation.

(Continued from page 1.)

Weathers. "Bank deposits, charge accounts, insurance policies, academic and medical records are just a few of the personal items stored on computers that can be accessed fairly easily," he says. "And the list is growing every day. Until now, there was no law in South Carolina that permitted prosecution of someone who committed certain types of crimes by computer."

In researching similar legislative action around the country, the commission found cases where computer criminals went free because their "crimes," such as learning corporate trade secrets, weren't covered under laws on theft or embezzlement.

An American Bar Association survey released last month said almost half the businesses and government agencies studied had been victims of computer crimes, with losses possibly as high as \$730 million this year.

Computer crime is a natural offshoot of the trend toward "user-friendly" technology, which Weathers says can run contrary to security efforts.

"Many computers can be reached by telephone if you have the right equipment, and it's pretty hard to put a padlock on a phone line," he says. "If you want the convenience of paying bills by phone, or getting money from a checking account at night, you have to pay a price. If you can get to your money easily, so can someone else."

But the new law covers more than money, Weathers says. Provisions for stealing or changing information, tampering with the programs themselves, or breaking into computers for fun -- a practice known in computerese as "hacking" -- are also included.

Of course, the law only makes computer crime easier to prosecute, not detect. Weathers says he'd still like to see more emphasis on security, and, in fact, some companies now are increasing their efforts to safeguard employees' privacy.

"Whatever one person thinks up, another can find a way around," he says. "That's one reason we needed this law. It's not possible to prevent all crimes, so we need to do as much as possible to discourage them."

Reach out and touch Videotex

What in the Clemson world is going on around here? If you'd really like to know, try reaching out and touching a Videotex terminal.

Videotex terminals are in Harcombe Dining Hall, the loggia, the P&A Building, Ag Sales, and the Computer Center.

Solar research house reaches final stage of construction

By Karen Colloca

The solar research house on Grace Street is now almost completed, says Bob Becker, director of the Energy and Resource Development Institute (ERDI).

"Right now, the whole house is finished except for the trim work. It still needs some cabinets for the kitchen and also some carpeting, which will go in when the house is sold," he says.

Construction on the house began in the fall of 1982. The house was funded by a \$40,000 U.S. Department of Agriculture rural housing grant, most of which went for labor costs.

Becker says that research information from the house is already being taken. "We are pulling data from the house now. We have our thermo-sensors and moisture sensors in place," he says.

The computer-monitored experiments include studies of insulation and the movement of air; indoor and outdoor shading and vegetation; textile dyes and

materials under high-sun conditions; and studies of the effects of the project on house pets.

Most of the experiments carried out in the house are hidden. "The majority of experiments are below the floor, inside of the walls, and inside the roof, so you can't see the actual research being done," says Becker. "Both the inside and outside of the house look like a normal house."

If everything goes according to schedule, Becker says, the house should be put up for sale about this time next year, with the proceeds from the sale going to the building of another research home.

"By selling the homes, the research money keeps turning over, and the housing research becomes self-sufficient," he says. "We don't have to depend on state funds or federal funds to research a goal."



Almost ready -- The solar research house located on Grace Street will be up for sale next year. Begun in 1982 with a \$40,000 grant from the U.S. Department of Agriculture, the structure houses computer-monitored experiments, although traces of research are hidden. Proceeds from the sale of the house will buy another research house, says Bob Becker, director of the Energy and Resource Development Institute.



The Clemson University Newsletter is published for Ian Davidson, a student adviser in admissions and registration, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

*This calendar is prepared up to a month in advance.
Please send in writing to the Department of Publications and Graphics
Services, 103 Fike, any campus event that should be listed. You
may also want to call 656-2467 to check the Internal Communications'
master calendar for possible scheduling conflicts.*

JUL 12 1984

July 13-20

WORKSHOPS

- 9-20 Clemson Career Workshop for Minority Students. Sponsored by Continuing Engineering Education. Two-week session for high school students just finishing their sophomore year to study such fields as computers, engineering and marketing. Call 656-3308 for more information.
- 18 "The Effects of Nuclear Weapons," an educational overview presented at a level suitable for a non-technical audience, with an optional technical session offered for those persons desiring a more detailed treatment. Sponsored by Continuing Engineering Education. Call 656-3308 for more information.

EXHIBITS

- Through mid-August "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
- Through Aug. 31 Summer Show. An exhibition of student work from all departments of the College of Architecture. Sponsored by College of Architecture and the Clemson Architectural Foundation, Monday-Friday, 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

CAMPS

- 15-21 Camp Sertoma for speech and hearing impaired children. Sponsored by S.C. Sertoma Club, parks, recreation, and tourism management department, Clemson Outdoor Laboratory. Call 646-7502 for more information.
- 15-28 Camp Hope, mentally handicapped 13 and older. Sponsored by S.C. Jaycees and parks, recreation, and tourism, Clemson Outdoor Laboratory. Call 646-7502 for more information.

FILMS

- 16 "Bloodbrothers." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3069 for more information.
- 19 "Gentleman's Agreement." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3153 for more information.

OTHER EVENTS

- 12-13 Student orientation (special transfer session).
- 16 Carolina Journal. Steve Wainscott, an assistant professor of political science, talks about the Democratic National Convention. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 19 Last day to withdraw from class or the University without final grades.
- Through Aug. 15 "Dancin' Aerobics." Sponsored by YMCA, Holtzendorf YMCA, 9-10 a.m. and 5:30-6:30 p.m. Monday, Wednesday and Friday. Call 654-2361 for more information.

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Newsletter

JUL 18 1984

July 18, 1984
Vol 23, No 45

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

University to develop national communications network

There are hundreds of computers at work right now running war simulations in order to test every piece of the country's defense mechanism. And the system is about to become a lot more efficient.

The University has received almost \$1 million to develop, for the U.S. Defense Department, a nationwide computer communications network that will link dozens of government, industry and university research sites.

Because researchers doing massive computer simulations for the Defense Department have no way to share their findings immediately, "a lot of people are out there re-inventing the wheel," says Ed Page, an associate professor of computer science who has been part of simulations research here for the past 10 years.

"There's a big need for some method of sharing information among the hundreds of people involved in testing different pieces of our defense system to make sure they really work," he says.

Under the \$970,000 contract, Clemson scientists will work simultaneously on a half-dozen projects to get a communications network operational in less than 10 years.

Part of the funds will go toward developing a laboratory to support the research. The lab will be equipped with our NCR Tower 1632 super microcomputers.

To meet immediate needs, Page and colleagues Harold Grossman and Wayne Madison have already created a tailored version of a commercial, electronic mail system dubbed TECNET, for "test and evaluation community network."

TECNET currently allows Air Force, Army and Navy research facilities, the Pentagon, major government and industrial defense contractors and research universities such as Clemson to communicate electronically.

The system also provides daily news updates on the aerospace industry and access to special bulletin boards that allow members to learn about meetings, and recent research findings or seek

help in locating information.

To enhance TECNET's capability to work with different types of computers, Madison is working on an electronic mail relay system -- a computerized version of the post office -- that will automatically exchange messages between computer systems at various sites around the country.

"This system will mean TECNET members can send messages across country as easily as they send them from one terminal to another in the same building," Madison says.

Another project will develop a Database Gateway -- a single focal point for tapping into the hundreds of computer databases that contain information related to defense.

"The Gateway will allow TECNET members to search dozens of databases at once, without having to learn different codes and commands for each one," Grossman says.

Other projects in the same contract are aimed at improving the procedures for doing simulations. Dan Warner, an associate professor of mathematical sciences, is working on a model documentation system to reduce the time and work involved in writing computer programs for simulations.

His system would create certain standard models that could be plugged into computer programs, helping overcome problems that can arise if programmers don't understand weapons and weapons experts don't know how to program computers.

Scientists here are also exploring ways TECNET can link the actual com-

puter simulations developed at different research sites. This capability would allow researchers to develop new simulations more quickly and economically.

Electrical and computer engineer John Daigle is also investigating the possibility of giving TECNET the ability to send, receive and file voice messages.



Castro

Castro named assistant dean of engineering

Overseeing the entire undergraduate program in the University's largest college is now the responsibility of mechanical engineer Walter E. Castro, who has been appointed assistant dean of engineering.

The appointment, effective immediately, gives Castro administrative responsibility for the program chosen as a major by almost a third of all undergraduates.

A graduate of Indiana Institute of Technology, Castro came here as a graduate student in 1959. After earning his master's degree in mechanical engi-

(Continued on page 2.)

Union offers darkroom short course

The University Union is offering a darkroom skills short course July 23 at 6 p.m. for members of faculty and staff and students. A \$10 fee will buy you an evening of instruction with Richard Anderson, darkroom manager, and a roll of film to "get you feet wet with," says Edie Furman, student program adviser.

Anderson will also be available by appointment after you complete the course, should you desire further help or wish to do more work in the darkroom, she says.

You may sign up for the course at the Union Information Desk. If you have questions concerning the course or the materials you should bring (paper is not supplied), call Furman at 656-2461.

(Continued from page 1.)

neering, he accepted a job as an instructor in engineering mechanics.

Castro left Clemson to earn his doctorate at West Virginia University, where he was a National Science Foundation Faculty Fellow and a pre-doctoral trainee for the National Aeronautics and Space Administration. He returned in 1965, earning a full professorship by 1973.

Castro, 49, has served as assistant head and acting head of the mechanical engineering department here. His research, which has been published in more than a dozen scientific journals, centers on fluid mechanics.

The new dean is a member of the American Society of Engineering Education, the American Society of Mechanical Engineers, and Sigma Xi scientific honor society. He is also a consultant to the National Council of Engineering Examiners.

He succeeds Professor Emeritus James L. Edwards, who retired this year after 35 years with the University.

Grants to support Canadian research

So you've always wanted to visit Canada. Well, here's your chance -- if you're willing to do a little teaching or research while you're there.

The Canadian Embassy in Washington, D.C., is now accepting applications for two programs, each supplemented by grants for travel, study and living expenses in Canada.

If you hold a doctorate and have taught for at least two years, you may want to apply for enrollment in the Canadian Studies Faculty Enrichment Program. In this program you would be required to develop a course on Canada or significantly redesign a course involving some aspect of Canada that you either presently teach or plan to teach.

Grants for the Enrichment Program will be awarded for a period of up to six months, and your maximum monthly stipend will not exceed \$1,500. Your application for this program must be received at the Embassy no later than Oct. 31, 1984.

The second grant for which you can apply is the Faculty and Research Grant, which has a two-fold purpose: to promote Canadian or Canadian-U.S. research in the natural and social sciences, humanities, law and fine arts (including all forms of scholarly inquiry and all associated activities); and to aid researchers in having their findings published in an appropriate scholarly publication.

Your research, under this program, will be funded for \$1,000-\$5,000 for the period April 1, 1985, to March 1, 1986. If

you are part of a research team, however, you may request funding in excess of \$5,000 for the same period.

Applications for the Faculty and Research Grant should be received at the Embassy no later than Jan. 1, 1985.

There are no application forms for the grants. For information on how to apply, contact Dr. Norman T. London, Faculty Enrichment Program, Public Affairs Div., Canadian Embassy, 1771 N. Street, N.W., Washington, D.C., 20036.

President's List honors 4.0 GPRs

By Lee Derrick

A President's List has been established recognizing undergraduate students who complete a full-time semester's work with a 4.0 GPR --straight A's with at least 12 hours.

The proposal for the list was made by the Student Senate and discussed by the Committee on Undergraduate Studies and the Council of Deans. Subsequently, President Atchley approved the recommendation in May.

The first President's List was implemented in the spring, and 323 students were honored for their academic excellence.

Students appearing on the list are congratulated with a letter signed by Atchley.

The Student Senate proposed the list be established because "achieving a 4.0 GPR is a noteworthy accomplishment."

In no way is the President's List designed to diminish the prestige of the Dean's List (full-time, 3.5 GPR), according to the students' suggestion.

Communications Center gets interim head

Executive director for University Relations Harry Durham has appointed Frank Nix acting director of the electronic and photographic services department (the Communications Center) until a permanent successor is found for Jim Burns, who retired June 30.

Nix is associate director of the Communications Center, which provides audio/visual, radio and television, and photographic support services for all areas of the University -- academics, public service and athletics.

Also in an interim capacity is Ha Smith, who is serving as acting supervisor of photography until a permanent successor is found for the late Charles Haralson, who died last month after an extended illness.

"We'll move as quickly as possible to fill the director's position and, in turn, the Photo Lab supervisor's position," Durham said. "In the meantime, with these interim appointments, people will know on whom to call for the service they need."

In a related move, Durham has appointed Tom Howard production manager at the Communications Center. Howard, who has worked primarily in the television-services area, will set production priorities and coordinate all production services required for particular projects.

Reach out and touch Videotex

What in the Clemson world is going on around here? If you'd really like to know, try reaching out and touching a Videotex terminal.

Videotex, a new computerized communications technology that is being put to work right here, will help keep you "in the know" about news and events on campus, from workshops and lectures to films, concerts, sports and the latest weather information.

Videotex terminals are in Harcomb Dining Hall, the loggia, the P&A Building, Ag Sales, and the Computer Center.

Try one.

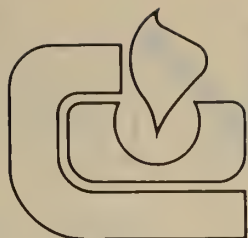


The Clemson University Newsletter is published for David Garrett, a supply clerk in purchasing and supply services and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

JUL 1 8 1984



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July 20-27

WORKSHOPS AND SEMINARS

- 22-28 1984 Summer Science Program. Sponsored by College of Liberal Arts and College of Sciences. For middle and high school students with a general interest in science. Call 656-3210 for more information.
- 23 Darkroom Skills Short Course. Sponsored by University Union, 6 p.m., Union darkroom. Fee, \$10; film included. Call 656-2461 for more information.
- 24-25 "The S.C. Flower Growers' Short Course." Sponsored by S.C. Cooperative Extension Service in coordination with the S.C. Greenhouse Grower's Association and Lander College, Lander College and Park Seed Co., Greenwood. Open to public. Call 656-3403 for more information.
- 24-26 "How to Use a Personal Computer for Maintenance, Planning, Scheduling and Control." Sponsored by Professional Development, Lehotsky Hall. Call 656-2200 for more information.

EXHIBITS

- Through mid-August "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
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- 22-28 Camp Sertoma for speech and hearing impaired children. Sponsored by S.C. Sertoma Club and parks, recreation, and tourism management department, Clemson Outdoor Laboratory. Call 646-7502 for more information.

FILMS

- 23 "Daniel." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Call 656-3069 for more information.
- 26 "Brother Sun, Sister Moon." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3153 for more information.

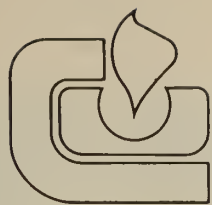
OTHER EVENTS

- 23 Carolina Journal. Football coach Danny Ford talks about Clemson's 1984-85 football season. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- Through Aug. 15 "Dancin' Aerobics." Sponsored by YMCA, Holtzendorf YMCA, 9-10 a.m. and 5:30-6:30 p.m. Monday, Wednesday and Friday. Call 654-2361 for more information.

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Newsletter

JUL 26 1984

July 25, 1984
Vol 23, No 45

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Stop and smell the roses during annual Flower Day

The Horticultural Gardens may be a good place to stop and smell the roses -- or daisies or petunias -- this Saturday as University horticulturists and garden volunteers host the annual Flower Day.

Activities will begin at 9 a.m. sharp with guided tours of the gardens and with speakers who will be discussing how to grow everything from roses and camellias to herbs and bonsai.

Something new this year will be slide-lecture "tours" of some of the state's other popular gardens. Gardens you may "visit" by way of these tours are:

-- Brookgreen Gardens in Myrtle Beach, with director Gurden Tarbox discussing the gardens' unique collection of plants, shrubs and sculpture, especially the American Sculpture Collection (10 a.m.);

-- Middleton Place Gardens in Charleston, with public relations manager Rebecca Des Maris giving a historical overview and slide show, and gardens'

manager Sidney Frazier discussing the specific care, culture and propagation of the grounds' plants (11 a.m.);

-- Edisto Gardens in Orangeburg, with guide Marion Davis talking about roses, especially the All-American Rose Selection Garden and the American Rose Society Accredited Display Garden (1 p.m.); and

-- Charlestown Landing Gardens, with horticulturist Robert Badger speaking on the history of those gardens (2 p.m.).

For the bonsai lover, Everett Craig, bonsai specialist from Belton, will have an exhibit showing the cultural steps of creating a dwarfed tree. You can see that display in the basement of the horticulture service center.

And camellia growers may want to visit the camellia gardens where Luther Baxter, a professor of plant pathology, will be demonstrating grafting techniques and discussing the care and culture of these shrubs.

Throughout the day Clemson horticulturists Pat Fulmer and Jere Brittain, entomologist Randy Griffin, and Howard Hiller of the Oconee County Extension Service will be conducting a plant problem clinic, answering questions and examining sick plants. This clinic will be near the entrance to the gardens.

Herbs grown by garden volunteers and drawings created by Clemson artist Elizabeth Fuller will be on sale in the Pioneer Garden, which features plants common to colonial settlements.

Garden volunteers will be on hand until 4 p.m. to answer questions and to identify species. A shuttle bus will run throughout the day, and soft drinks and snacks will be available.

Flowers in the gardens and funds to cultivate them are provided by garden volunteers, local businesses and the Flower Growers Association of South Carolina.

President's Council adopts plan for reorganization

After almost a year of study and debate, the President's Council June 29 adopted for submission to President Bill Atchley a reorganization plan for the University's committee-commission-council structure.

Under the plan, there would be eight commissions: the original six (Faculty Affairs, Graduate Studies and Research, Public Programs, Public Service, Student Affairs, and Undergraduate Studies), the recently established Commission on Classified Staff Affairs, and a new Commission on Physical Facilities.

As is now the case, each commission would have various committees reporting to it. The plan differs from current practice, however, by assigning to commissions several University committees that report directly to the president.

For example, the Athletic Council would be required to file a regular report through the Commission on Student Affairs, while the Traffic and Parking Committee and the Computer Advisory Committee would fall under the Commission on Physical Facilities.

The proposal would also establish an "Executive Board" to set the Council's

(Continued on page 2.)



Little beginnings -- If you have time for a leisurely stroll through the Horticultural gardens this Saturday, you'll see that big things come from little beginnings. The annual Flower Day promises lots of beauty and color to stimulate your visual sense, as well as advice and information from horticulturists throughout the state on the art of growing flowers, vegetables and herbs. Guided tours, lectures and seminars run from 9 a.m. to 4 p.m. Refreshments will be available.

Continued from page 1.

agenda, help implement decisions, and foster broader communication among commissions.

The board would include the president, provost, the eight commission chairmen, the nine collegiate deans, and the director of libraries.

The President's Council was established in January 1981 to advise the president and provost on matters of University governance and to provide a forum for the exchange of information and ideas among the various segments of the University community.

Among the 29 voting Council members are vice presidents, deans, department heads, faculty members, Extension representatives, classified staff members, and undergraduate and graduate students.

Once a reorganization proposal is approved by the president and positions are filled accordingly, the Newsletter will print the Council's full membership.

Thank you, Class of '34

In other business, the Council adopted a resolution thanking the members of the Class of 1934 for their recent gift of \$50,000 to endow a professorship.

The resolution reads:

"Whereas the academic program is preeminent at Clemson University;

"And whereas the Clemson Class of '34 has publicly testified as to the preeminence of the academic experience in their undergraduate lives and has, moreover, expressed their support for the present Clemson academic program by endowing a new named professorship;

"Be it resolved that the President's Council of Clemson University heartily commends the Class of '34 for its sound understanding of the importance of the educational mission of Clemson University and for its generous support of that mission;

"And be it further resolved that this resolution be communicated to the Class of '34 and its spokesman, Mr. Raymond All."

Scientist cited for research on nematodes

A nematologist who has made major discoveries that may lead to better control of destructive nematodes in soybeans has been cited for his research accomplishments.

Stephen Lewis, a professor of plant pathology and physiology, will join nine other leading soybean production researchers and extension specialists this month for a 10-day tour of public and private research facilities in the United States and England.

The annual tour is sponsored by ICI Americas Inc., a producer of crop chemicals, and the American Soybean Association, the national soybean grower organization aimed at improving profitability of the crop.

Only 10 people are chosen for the tour, and those selected must prove that their work has helped solve problems in the field and is applicable to soybean production nationwide.

Lewis' research focuses largely on controlling nematodes, wormlike plant parasites that are the major cause of crop loss in soybeans.

One of the findings that led to Lewis' appointment to the tour was the fact that lance nematodes reproduce better when temperatures reach and exceed 86 F. The revelation led to recommendations that growers plant before May 15.

His research on peanut rootknot nematodes also contributed to his selection for the tour. Soybean producers used to be mainly concerned with the Southern rootknot nematode.



Worm search -- Nematologist Stephen Lewis checks a soybean plant for signs of nematode damage. Lewis, one of 10 scientists chosen for a nationwide research tour, has made major discoveries that may lead to better control of destructive nematodes in soybeans.

In 1981, however, the peanut rootknot nematode, a relatively unknown species began causing damage to soybeans and tobacco. The peanut nematode has since become more destructive than the Southern rootknot nematode, he says.

"The peanut species does more harm because they lay more eggs, so there are greater numbers to deal with," Lewis says.

The problem is compounded by the fact that while many soybean varieties have built-in resistance to the Southern rootknot nematode, few are resistant to the peanut species.

Employees may add dental insurance to their benefits

Dental insurance will be available to state employees in January 1985, says Ron Herrin, director of payroll and employee benefits.

"We have very few details at this time," says Herrin, "but we plan to begin working on the program in September and after that time we will be providing information to all employees about the plan."

The Newsletter will keep you updated on specific details of the program as they are announced.

Retiring agents share memories of Extension

Ray Smith and Hubert Hardee couldn't be more different in personality, but they share fond and sometimes poignant memories of almost 60 years of combined Extension Service work in the Pee Dee region.

Smith, the retiring leader from Marlboro County, and Hardee, who leaves his post as leader in Georgetown County, recall the challenge of rapidly expanding technology, coping with droughts, hurricanes, tornados and falling agricultural prices.

Both entered the Extension Service in 1955, a few years after each graduated from Clemson -- Smith in agronomy.



The Clemson University Newsletter is published for Peggy Jenkins, a receptionist in the College of Architecture, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.



Hardee

and Hardee in animal science.

While Hardee is a quiet, reflective man, Smith is outgoing and seems to be constantly in motion.

Hardee was raised on a farm near Loris in Horry County, where he first joined Extension as assistant agent. He was named Georgetown County leader in 1965.

Smith grew up in Lee County on a farm that bordered the Lynches River. He began his Extension work in Lee County and was appointed Marlboro County leader in 1969.

They recently shared their thoughts in their service with Jerry Dyer, Extension's Pee Dee District area news editor.

Smith: "I guess the mechanization and chemical development stands out as the biggest task we had to cope with. We had quite a time assisting farmers who planted and plowed with mules or small two-row tractors to make the transition to the big machines you see as commonplace today."

Hardee: "Yes, that and the wide variety of changing farm chemical developments has made this a constant learning experience. And our young farmers are better and smarter today. Part of the challenge is staying sharp enough and well informed to be able to assist them."

Smith: "That's a fact, and that's one aspect I'm real happy about here in Marlboro County. We have 45 farmers here who are 40 years old or younger. I think that speaks well for the future of agriculture. I just wish it could be a nationwide trend -- good young people, well-educated and staying on the farm. We've got to have that to make it."

Hardee: "We saw the reduction in the number of farms and farm families here in Georgetown with the coming of a paper mill, a steel mill and very large holdings of timberlands. I'm encouraged at the beginnings we have here, though, in aquaculture. The Marine Extension



Smith

Service marine biologist, Jack Whetstone, is based here in Georgetown and works with crawfish, shrimp and fish farmers all along the coast. I'm not sure how permanent a change of land use and production that will mean for bonafide farmers, but it's a good start."

When he retires this summer, Smith will set forth on a mobile camper tour of the country with his wife, Lydia, and then return to tend to his 28 racking horses.

Hardee and his wife, Pat, will "do a bit of traveling" as well until he makes a decision on a venture into private business.

Departmental Notes

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month. Because of the July production schedule, however, some of this month's announcements will appear in the Aug. 1 Newsletter.

Administrative Programming Services

The following papers were presented at the CUMREC '84 conference in Montreal, Quebec, Canada, April 29-May 2:

-- "Chasing Wild Geese or A Query System Implementation Case Study" by M.E. Neil (Prog Analyst) and J.N. Hiser (Sr Sys Analyst); and

-- "Quality Assurance in Data Processing" by A.B. Sprouse (Sr Sys Analyst).

Cooke receives research grant

Francis Cooke, a professor in the bioengineering department, has received a \$2,500 grant from the Piedmont Orthopaedic Foundation of Charlotte, N.C., to support his research into the use of flexible, plastic-based plates in

helping to mend bone fractures.

The plates would replace the use of metal plates and screws which can cause problems, particularly in children, when the metal parts are left in place for long periods of time.

Cooke and C. Dayton Riddle, assistant chief of staff at the Shriner's Hospital for Crippled Children in Greenville, hope to develop a plate which could be left in place with no ill effects over an extended length of time.

The foundation is a non-profit organization devoted to research and development in orthopedic surgery.

Chemical Engineering

C.H. Gooding (Asst Prof) presented a seminar, "Pervaporative Separation of Aqueous Azeotropes," at Dow Chemical Company's Central Research Laboratory in Midland, Mich., June 6.

Chemistry

D.D. DesMarteau (Prof and Hd) and B.A. O'Brien (Vstg Asst Prof) published a paper, "An Efficient Synthesis of N-Bromoperhalo-1-alkanamines," in *The Journal of Organic Chemistry*, 49, 1467 (1984).



Dill

K. Dill (Asst Prof) has been invited to become an outside reviewer of proposals dealing with cystic fibrosis for the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (NIADDK) and National Heart, Lung and Blood Institute (NHLBI) of NIH.

Prof. Dill, R.D. Carter (Grad Stu) and R.E. Hardy (Grad Stu) published a paper, "pH Titration Studies of ¹³C Reductively Methylated N-Terminal Serine of Glycophorin AM," in the *International Journal of Biological Macromolecules*, 6 (1984) 164-166.

J.W. Huffman (Prof) published a review of "Marine Natural Products, Chemical and Biological Perspectives," Vol V, edited by P.J. Scheuer in the *Journal of the American Chemical Society*, 106 (1984) 3385.

Civil Engineering

S.C. Anand (Prof) attended the meeting

(Continued on page 4.)

(Continued from page 3.)

of the Administrative Committee of the Committee on Analysis and Design, Structural Division, *American Society of Civil Engineers*, during the ASCE Annual Convention in Atlanta, Ga., May 15.

Prof. Anand presented an invited seminar, "A Computer Model to Estimate Moisture and Creep Strains in Masonry Walls Subjected to Inplane Loads," to the faculty and graduate students of the civil engineering and engineering science and mechanics departments at Virginia Tech May 24.

R.H. Brown (Prof and Hd) presented a paper, "Behavior of Masonry Retrofit Embedments," at a U.S.-Italy joint workshop on Repair and Retrofit of Existing Buildings held in Rome, Italy, May 7-11. The workshop was sponsored by the National Science Foundation's Earthquake Hazards Mitigation Program. The paper will appear in the workshop's proceedings.

English

J.L. Idol Jr. (Prof) organized and attended a meeting of the Nathaniel Hawthorne Society at the Boston Athenaeum and Harvard University June 15-16.

C.E. Johnston (Asst Prof) published "Transcendentalist Communities" in *The Transcendentalists: A Review of Research and Criticism* (New York, Modern Language Association, 1984), 56-68.

Management

M.J. Stahl (Prof and Hd), D.W. Grigsby (Assoc Prof) and A. Gulati (Grad Teach Asst) have had an article, "Comparing the Job Choice Exercise and the Multiple Choice Version of the Miner Sentence Completion Scale," accepted for publication by the *Journal of Applied Psychology*.

Mathematical Sciences

R.E. Jamison (Prof), who is on sabbatical leave at the Mathematisches Institut der Albert-Ludwigs-Universitaet in Freiburg, West Germany, gave a colloquium on "Slope Problems" at the Free University of Brussels May 18. He gave a lecture on "Whitney Sums and Matchings in Trees" at the Bonn Workshop on Combinatorial Optimization June 11-16.

Bennett elected SCIEEE chairman

J.E. Bennett, an associate professor of electrical and computer engineering, has been elected chairman of the S.C. Council of the Institute of Electrical and Electronics Engineers (IEEE). The council has a membership of some 1,000 members statewide.

Bennett, a member of the faculty here since 1973, taught at the University of

Tennessee-Knoxville, the University of Tennessee-Martin, and McNeese State University, Lake Charles, La.

He formerly worked as principal scientific investigator for the Los Alamos Scientific Laboratory in Los Alamos, N.M., and as an investigator for the U.S. Department of Energy at the Savannah River Laboratories.

Bennett has also conducted research for the National Aeronautics and Space Administration and the U.S. Army.

Mechanical Engineering

I. Haque (Asst Prof) and J.E. Jackson (Assoc Prof) received a \$7,500 grant from the ALCOA FOUNDATION to conduct research from April 1, 1984 to April 1, 1985 in "Computer Aided Forging Die Design."

Prof. Jackson received a \$33,360 contract from the Association of American Railroads to conduct research through December, 1984. This contract renews the project "Finite Element Analysis for Lateral Track Strength."

Prof. Jackson and M.A. Jamnia (Grad Asst) published "Nonlinear FSI Due to Underwater Explosions" in *ASCE Journal of Engineering Mechanics*, Vol 110, No. 4 (April, 1984).

C.E.G. Przirembel (Prof and Hd), J.L.F. Porteiro (Texas A&M) and R.H. Page (Texas A&M) presented a paper, "System Analysis for a Model of Bluff Body Base Flow," at the 12th Southeastern Conference on Theoretical and Applied Mechanics, May 11, at Callaway Gardens, Ga.

Also at that conference, Prof. Przirembel and W.H. Koenig (Picatinny Arsenal) presented a paper, "The Subsonic Near-Wake of an Axisymmetric Body with a Slanted Base."

Nursing Center

S.E. Barger (Asst Prof and Dir) gave a talk, "Implementing an Evaluation System for a Nurse-Managed Center," at the Second Biennial Conference on Nurse-Managed Centers in Milwaukee, Wis., May 30-June 1. The conference was sponsored by the University of Wisconsin.

Political Science

C.W. Dunn (Prof and Hd) has been named to a three-year term on the Committee on Education of the American Political Science Association.

Textiles

J. DaSilva (Res Asst Prof) presented a paper, "The Behavior of Nonionic Dyes and Surfactants in Foam Dyeing Systems," at the 58th Colloid and Surface Science Symposium at Carnegie-Mellon University in Pittsburgh, Pa., June 10-13. The paper was written with C.W. Jarvis (Assoc Prof).

Southeast tourism chapter honored

The Travel and Tourism Research Association has given its first Chapter of the Year award to the Southeast chapter, which is led by Dick Howell, a professor of travel and tourism.

The chapter, cited for its membership growth and innovative programs for 1983, includes Alabama, Georgia, Tennessee and the Carolinas.

An international organization, the travel association comprises representatives from the travel and tourism industry devoted to improving marketing and development through research.

You're getting better as you grow older

By Susan M. Baker
Graduate Student
College of Nursing

Everyone knows that children change as they grow older. Children not only grow taller, they gain many skills and abilities.

Physically, children get stronger and gain coordination. Mentally, they can handle ideas that are more and more complex.

Adults also change as they grow older. Although many adults do not increase in height, they often increase their emotional maturity and their ability to solve problems.

The common misconception is that the intellectual processes slow at adulthood and decrease over the years. It is true that adults over 30 tend to score slightly lower on tests which demand memorization and quick answers.

It is also true that after age 70 there is often a slight, gradual slowing of intelligence. However, studies show that as adults under 70 grow older, they are more able to handle complicated situations.

Adults learn new things as they go through life and become more experienced. They can handle bigger problems and think of better solutions than 20-year-olds. The only adults who decrease in intelligence and problem-solving abilities are those who stagnate and stop learning new things.

Adults also get better emotionally. At age 20, the typical adult has reached only the halfway point in emotional development. Over time, adults learn more about getting along with people and about handling themselves in different situations.

Adults also handle their emotional ups and downs better, and therefore have fewer crises. When crises do come they can cope better.

JUL 25 1984



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

*This calendar is prepared up to a month in advance.
Please send in writing to the Department of Publications and Graphics
Services, 103 Fike, any campus event that should be listed. You
may also want to call 656-2467 to check the Internal Communications'
master calendar for possible scheduling conflicts.*

July 27- Aug. 4

CAMPS

- 29-Aug.4 Camp Running Brave for hemophiliacs. Sponsored by S.C. Hemophilia Foundation and parks, recreation and tourism management department. Call 646-7502 for more information.
- 29-Aug. 4 Camp Sertoma for speech and hearing impaired. Sponsored by S.C. Sertoma Club and parks, recreation, and tourism management department, Clemson Outdoor Laboratory. Call 646-7502 for more information.

FILMS

- 30 "Chilly Scenes of Winter." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3069 for more information.
- 1 "The Chosen." Sponsored by College of Liberal Arts, Y-Theater, 7:30 p.m. Free. Call 656-3153 for more information.

OTHER EVENTS

- 28 Flower Day. Guided tours of the Horticultural Gardens and slide-tape presentations of other popular gardens in South Carolina. Sponsored by horticulture department, 9 a.m.-4 p.m. Call 656-3404 for more information.
- 30 Carolina Journal. Charlie White, an associate professor of parks, recreation and tourism management and head of the Clemson Outdoor Laboratory, talks about "Special Camps for Special People." Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 1 Examinations.
- 4 Graduation, 11 a.m., Littlejohn Coliseum.
- Through Aug. 15 "Dancing Aerobics." Sponsored by YMCA, YMCA Center, Monday, Wednesday and Friday, 9-10 a.m. and 5:30-6:30 p.m. Call 654-2361 for more information.

Newsletter

August 1, 1984
Vol 23, No 46

AUG 2 1984

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

His smile and words of cheer brighten office deliveries

By Lee Derrick

His is one of the most familiar faces on campus. "Postal clerk" is his title, but "spreader of cheer" seems more appropriate.

Don Allen delivers more than books, pamphlets and other printing orders from the duplicating services center. He delivers a smile and friendly tidings to his many "clients" across the campus.

"This job is fun. The best part of it is getting to meet people," says Allen, a University employee for almost three years. "I like to give these folks a hard time," he jokes, referring to the host of friends he has made on the job.

Allen is truly a "people-person." Cruising around campus with him on his afternoon delivery route is equivalent to short course in public relations. It seems as though this man knows everybody in sight.

When asked about himself, Allen predictably replies that "there's really not that much to tell."

Well, Don, we'll be the judge of that, O.K.?

"I graduated in '79 [from Clemson] with a B.A. in history."

Keep going, Don. Weren't you on the track team?

"Yes, I ran the 100 and 220 [yard dashes], and was a 4 x 100 relay man. Oh, and I love to play softball."

Allen plays for the Mercenaries, a team of University staffers and graduate students. (The Mercenaries are, by the way, perennial champs of intramurals. Not too shabby for "a bunch of old men," as Allen describes them.)

There's a cultural side to Don Allen, too. He's a pianist who enjoys playing classical music and a singer who enjoys singing. Period.

In addition to delivering printing orders, Allen is also responsible for receiving supplies at the duplicating services center, and he occasionally finds the time to learn about some of the printing techniques used there.

Allen hasn't really drawn a strict

outline for his future, advocating, instead, a "play-it-by-ear" philosophy. But he says he wouldn't mind teaching chorus.

Whatever he does, if personality is a requirement, Don Allen should encounter nothing but high notes. In the meantime, he'll continue to bring good cheer to campus offices.

As one of his clients says, "When Don walks in the office, it's like somebody's opened a door or a window and let the sunshine in. He really brightens things up."

Departmental Notes

Announcements of professional accomplishments of faculty and staff members appear in the last Newsletter of each month.

AGRICULTURAL ECONOMICS & RURAL SOCIOLOGY

C.O. Nyankori (Assoc Prof) presented a paper, "Regional Differences in the Pattern of Household Food Expenditures: Projections Under Changing Income Distributions," at the annual meeting of the Southern Regional Science Association in Lake Buena Vista, Fla., May 2-4.

C.S. Thompson (Prof) and B.L. Dillman (Prof) presented a paper, "Institutional Framework of the Farmland Real Estate Market in South Carolina," at the Southern Natural Resources Economics Meeting in Atlanta, Ga., May 17-18.

AGRONOMY AND SOILS

J.H. Palmer (Prof) participated with 40 other agricultural scientists in a workshop, "Assessment of Technology, Public Policy, and the Changing Structure of American Agriculture," in Washington, D.C., April 24-26. The workshop was sponsored by the Office of Technology Assessment of the U.S. Congress.

EXTENSION HOME ECONOMICS

L.L. Mahrer (Assoc Prof) presented an invited lecture, "Family Housing Alternatives," at Queen's College in New York, N.Y., March 21.

FOOD SCIENCE

C.V. Morr (Stender Prof) presented a paper, "Manufacture, Functionality and

(Continued on page 2.)



Delivery with a smile -- It's more than packages Don Allen delivers when he makes his daily rounds across campus, for he casually tosses in a bit of merriment along with those deliveries. Allen, a postal clerk at the duplicating services center, has made quite a few friends in the three years he has been with the University. Here he chats with Terry Butler, a supply clerk in the bulletin room at the communications center. "Don is a really good person," says Butler. "He's the friendly type, not just one day, but everyday."

(Continued from page 1.)

Utilization of Milk Protein Products," at the Milk Proteins '84 Conference sponsored by the European Economic Community in Luxemburg, May 7-11.

Prof. Morr co-chaired a symposium, "Physical/Chemical Basis of Protein Functionality," at the American Oil Chemists' Society Meeting in Dallas, Texas, April 29-May 3.

Also at that meeting Prof. Morr and J.R. Brooks (Grad Asst) presented a paper, "Current Aspects of Soybean Protein Functionalization and Nomenclature."

R.F. Borgman (Prof) presented "An Evaluation of the School Breakfast Program" at the 11th Annual Meeting of the South Carolina Nutrition Council in Columbia, June 7, and D.E. Turk (Prof) was elected chairman of that council.

HISTORY

T. Kuehn (Assoc Prof) reviewed Charles M. de la Ronciere, *Prix et salaires a Florence au xiv^e siecle in American Historical Review* 89 (1984): 418.

E.E. Moise (Asst Prof) reviewed *Operation Ranch Hand: The Air Force and Herbicides in Southeast Asia, 1961-1971*, by W.A. Buckingham Jr., Office of Air Force History, 1982, in *Aerospace Historian*, 30, No. 3 (September 1983) 217.

Prof. Moise reviewed *Peasant China in Transition: The Dynamics of Development Toward Socialism, 1949-1956*, by Vivienne Shue, University of California Press, 1980, in *American Historical Review*, 89, No. 1 (February 1984) 184-85.

T. Perdue (Assoc Prof) published an essay, "Red and Black in Southern Appalachia," in *Blacks in Appalachia* edited by W.H. Turner and E.J. Cabbell (Lexington: University of Kentucky Press, 1984).

Prof. Perdue presented a paper, "Southern Indians and the Cult of True Womanhood," at the Symposium on the South at Georgia Southern College in Statesboro, Ga., April 21.

INDUSTRIAL EDUCATION

J.P. Crouch (Alumni Prof) conducted a three-day workshop for designers and artists in the communications operation at NASA's Langley Research Center in Hampton, Va., May 14-16.

MANAGEMENT

W.H. Hendrix (Assoc Prof) and C.W. McNichols (Prof) published "Organizational Effectiveness as a Function of Managerial Style, Situational Environment, and Effectiveness Criterion," in the *Journal of Experimental Education*, (Spring 1984).

Prof. Hendrix had a paper, "Stress Effect on Organizational Outcomes and

Prediction of CAD Risk," accepted for presentation at the 1984 American Psychological Convention in Toronto, Canada, in August.

Prof. Hendrix presented a paper, "Effects of Stress and Exercise on Employee Health," at the 5th Annual Society of Behavioral Medicine meeting in Philadelphia, Pa., in May.

M.J. Stahl (Prof and Hd) and T.W. Zimmerer (Prof) published an article, "Modeling Strategic Acquisition Policies: A Simulation of Executives' Acquisition Decisions," in *Academy of Management Journal*, (June 1984) 369-383.

MATHEMATICAL SCIENCES

R. Laskar (Prof) gave a seminar on "Theoretical and Algorithmic Aspects of Domination in Graphs" at Michigan Institute of Technology in Cambridge, Mass., and at Northeastern University in Boston, Mass., in June.

Prof. Laskar chaired a session at the Fifth International Conference on Theory and Application of Graphs at the University of Western Michigan in Kalamazoo, Mich., June 4-8.

Also at that conference, S.T. Hedetniemi (Prof, Comp Sci) gave a presentation on "Domination in Trees: Models and Algorithms," which was compiled with Prof. Laskar; and D.R. Shier (Prof) gave an invited talk on "Iterative Algorithms for Calculating Network Reliability."

Prof. Laskar published a paper, "A Note on Total Domination," in *Discrete Mathematics*, Vol. 49 (1984). The paper was written with Prof. Hedetniemi and R.B. Allan (Former Grad Stu).

PHYSICS AND ASTRONOMY

A.L. Laskar (Prof) presented a colloquium on "Thermodynamics of Defects and Diffusion-Experimental Deviations" and consulted the Material Science Group at the T.J. Watson Laboratory, IBM, in Yorktown Heights, N.Y., May 17-18.

Prof. Laskar presented an invited paper, "Anomalous Defect Properties in Silver Halides and Their Role in the Photographic Process," at the Annual Conference of the Society of Photographic Scientists and Engineers in

Boston, Mass., May 20-24.

J.R. Ray (Prof) and A. Rahman (Argonne Nat Lab) published a paper, "Statistical Ensembles and Molecular Dynamics Studies of Anisotropic Solids," in the *Journal of Chemical Physics* Vol. 80 (May 1984) 4423-4428.

PLANT PATHOLOGY AND PHYSIOLOGY

E.M. Bentley (Grad Res Asst) and E.I. Zehr (Prof) published "Role of Ice-Nucleating (INA) Bacteria in Frost Injury of Peach Flowers in South Carolina" in *Phytopathology* 74: 625-626 (Abstract).

D.W. Guy (Grad Res Asst) and S.A. Lewis (Prof) published "An Interaction Between *Meloidogyne Incognita* and *Hoplostaimus Columbus* on the Susceptible Soybean 'Davis'" in *Phytopathology* 74:628 (Abstract).

G.C. Kingsland (Assoc Prof) published "Epidemiology of Powdery Mildew of Wheat, Caused by *Erysiphe Graminis* F. Sp. *Tritici* in South Carolina in 1983" in *Phytopathology* 74:629 (Abstract).

J.F. Murphy (Grad Res Asst), O.W. Barnett Jr. (Prof) and W. Witcher (Prof) published "A Blackeye Cowpea Mosaic Virus Strain From South Carolina" in *Phytopathology* 74:631 (Abstract).

Prof. Barnett and B. Sammons (Grad Res Asst) published "Viruses Infecting Yellow Summer Squash (*Cucurbita Pepo*) in South Carolina" in *Phytopathology* 74:632 (Abstract).

Prof. Barnett, Prof. Witcher and A. Yilma (FAO Scholar) published "Viruses of Bell Pepper (*Capsicum Annuum*) Eggplant (*Solanum Melongena* L.) and Tomato (*Lycopersicon Esculentum*) Found in South Carolina" in *Phytopathology* 74:634 (Abstract).

A.P. Nyczepir (Former Grad Asst) and S.A. Lewis (Prof) published "Incidence of *Fusarium* and *Pythium* Spp. in Peach Feeder Roots as Related to Dibromochloropropane Application for Control of *Criconebella Xenoplax*" in *Plant Disease* 68:497-499.

POLITICAL SCIENCE

C.W. Dunn (Prof and Hd) has been named to the editorial board of the *Southeastern Political Review*.



The Clemson University Newsletter is published for Elizabeth Cheek, a key and peripheral operator in administrative data processing, and for all the members of the University faculty and staff by the Department of Publications and Graphics Services.

Editor _____ Jack A. McKenzie

Assistant Editor _____ Joyce Barrett

Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

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master calendar for possible scheduling conflicts.*

Aug. 3-10

EXHIBITS

- Through mid-August "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
- Through Aug. 31 Summer Show. An exhibition of student work from all departments of the College of Architecture. Sponsored by College of Architecture and the Clemson Architectural Foundation, Monday-Friday, 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

OTHER EVENTS

- 5-11 Department of Youth Services Camp. Sponsored by Department of Youth Services and parks, recreation and tourism management department. Call 646-7502 for more information.
- 6 Carolina Journal. Bill Weathers, administrative manager of data processing at the Computer Center, talks about computer crime. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.



Newsletter

August 8, 1984
Vol 23, No. 47

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

AUG 8 1984

Commission studies concerns of classified staff members

There's been no room for spiders in campus post office box 2121 in the past couple of months. Letters from employees writing to the Commission on Classified Staff Affairs have kept the box too busy for cobwebs.

In a May memo to all classified staff members, the commission encouraged employees to send in their questions and comments on University-wide policies and issues.

As a result, the commission has received several letters, all of which have been acknowledged, says University Relations assistant director for special projects Jane Kidd, who chairs the commission.

The letters deal with issues ranging from employee promotion policies to the definition of "commercial pursuit" as applied to publishing projects of faculty members.

Commission members have agreed that, generally, any employee who writes to them will receive a letter of acknowledgement, and, if a letter warrants a more specific response -- for instance, if a person is asking for explanation of or action on an issue or policy -- the commission will write a follow-up letter detailing the action taken.

The commission is carefully considering all letters it has received, says Kidd, and will continue to do so.

The commission has spent much of the time during its last two meetings discussing proposed procedural bylaws. The effort to develop bylaws is being led by a committee chaired by Paul Gable, business and finance analyst in Extension administration, and including Pat Durham, an administrative specialist in the College of Architecture; Ron Herrin, director of payroll and employee benefits; and Ray Thompson, director of personnel.

The commission has also talked about how it will communicate with classified employees and has heard from internal communications manager Jack McKenzie about information opportunities available through the publications and

graphics services department.

McKenzie, who is editor of the University Newsletter and the Clemson University News, invited the commission to use those periodicals to keep employees informed of commission activities.

The Newsletter, he said, is intended for all employees, and he said a conscious effort is made to give the publication "an image that appeals to the staff as well as to the faculty."

He said the University's newspaper, the Clemson University News, has a circulation of 75,000, which includes all employees as well as alumni and other Clemson supporters.

McKenzie said his office is also responsible for the University's various calendars and for keeping the official master list of University-related events.

But the most immediate means of releasing information that his department has, McKenzie said, is through the Computer Center's videotex network, a computerized communications system that distributes information through terminals placed in strategic locations across campus.

"Through videotex," he said, "we have a way to instantly put out the most up-to-date information. Right now we have five terminals across campus -- in Harcombe Dining Hall, the loggia, the P&A Building, the Ag Sales Center and the Computer Center.

"We invite your suggestions of ways we can use this system so that it will be helpful to you and to other members of the staff," he said.

New department will focus on aquaculture

Dial the number 656-3111 and the receptionist no longer says "entomology, fisheries and wildlife." She says "entomology." Period.

That's because the department has been divided, and the University now

has a department of entomology and a department of aquaculture, fisheries and wildlife.

In response to growing statewide emphasis on both protecting and tapping the economic potential of natural resources, the aquaculture, fisheries and wildlife department was created July 1, says Luther Anderson, dean of the College of Agricultural Sciences.

The department will be devoted to teaching, research and public service and will help support one of the state's most rapidly growing industries.

"The value of our fish and wildlife resources to the economy of the state continues to increase," says Lamar Robinette, acting department head. "And aquaculture -- raising fish for food -- is rapidly emerging as a new way farmers can earn income using the resources they already have.

"Clemson has been called on more and more to provide a base of academic and research support for these fields," says Robinette. "It just got too big to remain combined with entomology, which is a large, active program in itself."

Sid Hays, head of the entomology, fisheries and wildlife department since it first was formed 15 years ago, agrees on that point. "The entomology program stands on its own," he says. "They [aquaculture, fisheries and wildlife and entomology] are vastly different disciplines, and, since entomology is such a strong program, I've been supporting the division for years. I think it will really help give them the identity that is crucial for them to have right now."

Yet, it is not without a few nostalgic feelings that Hays welcomes the change. "I've watched the program grow for 15 years," he says. "They're part of us, part of our family, and, well, at least they'll still be here in the same building with us. It's not like they're leaving."

Hays says the change will not come about overnight. "It'll be gradual. We're in the process now of dividing equipment and budgets. It'll take awhile."

The academic realignment was preceded by the formation of a cooperative research and educational unit involving the University and the S.C. Wildlife and Marine Resources Department.

(Continued on page 2.)

(Continued from page 1.)

"Our major thrust will be to provide the information delivery system through our Extension Service and research through our Experiment Station," Robinette says.

The academic realignment will not require additional faculty, but Robinette says research activities in aquaculture, fisheries and wildlife should increase.

"Being in a separate department created specifically for these areas will give our scientists greater visibility with granting agencies and foundations," he says.

The number for the new department is 656-0362.

The joint S.C. Aquaculture, Fisheries and Wildlife Co-op allows the University to use state wildlife department facilities, such as the new Waddell Mariculture Center at Beaufort.



Charles

Eugenia Charles speaks at August commencement

Dominican Prime Minister Eugenia Charles, who was catapulted into the international spotlight after the U.S. invasion of Grenada last year, returned to the campus Aug. 4 to deliver the commencement address.

Charles also received an honorary Doctor of Laws degree in the 11 a.m. ceremonies at Littlejohn Coliseum, where more than 500 students were graduated. The visit was the second for Charles, who addressed faculty and students last February.

The 298-square-mile island of Dominica was unknown to most Americans until its prime minister appeared on nationwide television with President Reagan last October to justify the invasion of Grenada.

A practicing attorney since 1949, Charles didn't get involved in Dominican politics until 1968, when she organized the Dominica Freedom Party to oppose the rule of Prime Minister E.O. Le Blanc. From that point she moved through the country's legislature, play-

ing a key role in obtaining Dominica's independence from Great Britain in 1978.

As chairwoman of the Organization of Eastern Caribbean States, she first approached President Reagan last year with her concerns about the growing unrest on neighboring Grenada.

Nursing sponsors wellness weekend

Perhaps you've heard the old saying "When a man lies dying, he does not die from the disease alone. He dies from his whole life." This kind of thinking has been a catalyst for the wellness movement that has captured the nation's health fancy in the past few years.

Now the wellness movement has reached the Southeast, says Dee Evers, director of Nursing Continuing Education, and the College of Nursing is ready to help you make the commitment to a wellness lifestyle.

The college is sponsoring the first Southeastern Regional Wellness Symposium Aug. 17-19, a weekend devoted entirely to learning to enhance your spiritual, mental and physical well-being.

"This is a new concept for the Southeast," says Evers. "It has been taught in California and at the University of Wisconsin for years, but it is a pretty new concept for this area. It's part of a nationwide movement toward taking responsibility for a healthier lifestyle."

The symposium, consisting of lectures, exercise, music, eating healthful foods, and learning relaxation techniques, will be held at the Outdoor Laboratory in camps Hope and Sertoma and, says Evers, will serve as "a microcosm of healthful living."

Six experiential workshops will provide instruction in such areas as therapeutic massage, yoga and left brain-right brain awakening. Lecture topics include "Qualities of the Super-Well," "Using the Mind to Heal," and "Lifelong Sexuality for Health."

The purpose of the symposium is to offer encouragement and assistance to individuals who want to make a commit-

ment to a wellness lifestyle. "We'd like to make this an annual event," says Evers. "We'd like to make it bigger and better."

The \$134 fee includes six meals. Lodging (another \$16) is optional for the two days and nights. Senior citizens and University employees may deduct 20 percent of the conference fee. Groups of three or more who enroll together receive a 10-percent discount.

Evers says participants will be assigned on a first-come, first-served basis, either four to a one-bath cabin or eight to a two-bath cabin. "Couples may request assignment to a couples-only cabin," she says, "but we cannot guarantee space availability."

Meals have been especially planned, says Evers, to provide a wide variety of nutritious, low-calorie foods and to meet the needs of vegetarians and those who eat poultry and fish. "No red meats, sausage, hot dogs or luncheon meats will be served," she says.

Those persons completing the program will receive 1.7 continuing education units. For information on how to enroll in the symposium, call Evers at 656-3078.

Amacher reflects on China trip

by Karen Colloca

It's not every day that people get to visit an exotic country like China, but 10 faculty members did this summer, and their trip, sponsored by the School of Textiles, proved to be both exciting and educational.

The group, which included Provost David Maxwell, Prof. Ed Vaughn, director of textiles, and Betts Wilson, executive assistant in Institutional Advancement, was invited to the country by the East China Institute of Textile Science and Technology in Shanghai, which is the major textile university in China, says Ryan C. Amacher, dean of the College of Commerce and Industry.

"The idea was that we could learn what they were doing in textile education and also look at some of the aspects



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Editor _____ Jack A. McKenzie
Assistant Editor _____ Joyce D. Barrett
Production Assistant _____ Carla Reeves

The staff welcomes your comments and suggestions. Call us at 656-2467 or write us at 103 Fike Center.

of their textile industry. We took a week at the Institute to tour the facilities and visit the textile plants."

Amacher says the Chinese people were "very friendly and very open in terms of what was going on in their booming economy due to a free market."

The dean says the biggest difference he saw between the U.S. and Chinese textile industries is that the Chinese method of training people in the industry is more advanced than the U.S. method.

"With their textile industry, in particular, the training is very modern. The students train on all the modern equipment that is not even in the factories yet. This is very different from the United States, where the textile mills get the equipment first and then 'give' the equipment to the textile schools later."

Amacher says he also saw during the trip how the Chinese economy works as a whole. "The Chinese economy seems to be making great strides due to the introduction of economic reform, which is the most complete in agriculture and the arts. It was exciting to see the effect of capitalism in a controlled economy. My guess, however, is that these reforms will be short-lived because economic freedom will produce other freedoms that the political leaders will not be able to tolerate."

Amacher and his party spent the last five days of the visit "doing tourist things" in Peking.

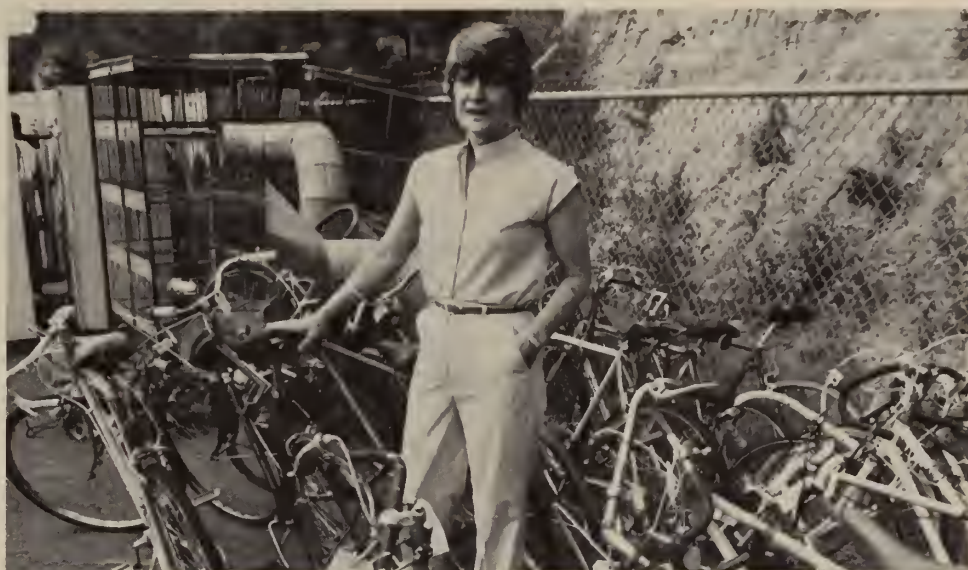
"We got to visit the Peking Wall, the Forbidden City, and other tourist traps in the area," says Amacher. "They were all very interesting, but the main thing that stuck out in my mind was that there was garbage all over the place! The streets and buildings had wrappers and pieces of paper everywhere. This was surprising to me because I couldn't understand why the Chinese weren't more conscious about their surroundings, especially since the tourist industry is so big there."

Amacher says he found the Chinese people to be fascinating and that they, in turn, were fascinated by their Clemson visitors.

"They seemed very interested in observing us up close and listening to us talk and even sometimes in touching us. This often happened with crowds in the street when we would stop at a museum."

"There were always hordes of people in the streets. It seemed close and confining to me. The best way to describe the mass is to think of the streets [of Clemson] at the football stadium immediately after a game."

Although Amacher doesn't have any immediate plans to go back to China, he says the learning experience would be "worthwhile" to do all over again sometime in the future.



Going once, going twice -- This lot of bicycles will be sold to the highest bidder Aug. 11, when the University at 10 a.m. holds its second auction of the year for "cleaning house" on surplus supplies. Evelyn Earnhart, assistant manager of purchasing and supply, says the auction will be held rain or shine behind the service and support facility at the intersection of Perimeter and Old Stadium roads. The bikes, "leftovers" unclaimed by their owners, are held by the security department for two years, she says, before they are declared surplus.

Auction moves surplus goods

It's housecleaning time again for the University, and at the surplus auction on Aug. 11 you may find anything from office equipment and pickup trucks to bicycles and doublewide trailers for sale.

"You might call it the University's gigantic yard sale," says Jim Boleman, director of purchasing, "where we get rid of all the surplus items that have been accumulating in the past few months."

The auction starts at 10 a.m., says Boleman, and continues "until it's all gone, sometime around noon or after."

The auction, a project of the property control division (with help from the physical plant division), is usually held about twice annually, says Evelyn Earnhart, assistant manager of purchasing and supply.

"Actually, how often we have it depends on the amount of supplies that have accumulated," she says. "But we always open it up to the departments first, and they've already been, so now it's all ready to go."

At the auction, which will be held behind the service and support facility on Old Stadium Road, sale items will be grouped together in "lots" of similar objects, and an entire lot will be put up for bid. Earnhart estimates there will be about 135 lots of supplies and equipment at the sale.

"If we auctioned everything off individually," she says, "we'd be here forever. But if someone wants just one item from a lot, sometimes they can buy

it from the individual who bought the lot."

Proceeds from the auction, says Boleman, go to the University's general fund, unless they are earmarked for a specific account. "The funds are used, then, to replace like items that have been sold," he says.

Proceeds have varied in past auctions from \$15,000 to \$100,000, he says. "If, for example, we sell a fleet of motor pool cars, we'll be taking in more money."

The University, however, does not keep all the money received at auctions. Part of it goes for the auctioneer's fee, and part of it goes to the state.

The auction will be held, says Earnhart, rain or shine. If you'd like information on the sale, call her at 656-2390.

Fish start bitin' here this fall

If all goes well, agricultural scientists will be growing fish here this fall.

Fish seed? Hardly. But the scientists will be using lots of water to nurture their crop. Just before winter begins, agricultural engineers will stock the University's new aquaculture research site with catfish and crawfish.

The four-acre site, located off Perimeter Road on a parcel of land about a quarter of a mile from the football stadium, will feature 32 ponds, each about one-tenth of an acre in size and

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(Continued from page 3.)

no more than four-and-one-half-feet deep.

The facility, currently under construction, is part of an effort by the University and the Experiment Station to improve the aquaculture picture in South Carolina. State officials have said that aquaculture, or raising fish in fresh water for food, has great profit potential in the state, especially for farmers who already have the needed land, water and other resources.

"Five years ago there were less than 100 acres of land involved with aquaculture," says John Collier, the agricultural engineer in charge of the new research site. "Now there are several thousand acres involved. People are getting interested."

"There's one operation in the lower part of the state that's putting in 900 acres of catfish. People are spending a lot of money getting into this, but there's not much information we can offer to help them. We need more research in this area, and that's why we decided to build these ponds."

University scientists using the campus site will also have access to the new James M. Waddell Jr. Mariculture Research and Development Center near Beaufort. The 150-acre facility, operated by the S.C. Wildlife and Marine Resources Department, will concentrate on farming aquatic organisms in salt water.

Construction of the fish ponds began June 1 and should wind up in October, Collier says. Heavy equipment used to dig the ponds was supplied by the S.C. Army National Guard, Engineers Battalion (CBT), based in Edgefield.

Water will come from a nearby creek. During dry times, an irrigation pump will draw water from a riverbed, he says.

Reach out and touch videotex

What in the Clemson world is going on around here? If you'd really like to know, try reaching out and touching a videotex terminal.

Videotex, a new computerized communications technology that is being put to work right here, will help keep you "in the know" about news and events on campus, from workshops and lectures to films, concerts, sports and the latest weather information.

Videotex terminals are in Harcombe Dining Hall, the loggia, the P&A Building, Ag Sales, and the Computer Center.

Try one.

Herbarium curator no 'Mr.' Wizard

by Dorrie Harlee

Open the University directory to any page you like, and you'll find all kinds of potentially interesting job titles --lab equipment specialist, athletic equipment manager, meat inspector supervisor, herbarium curator, secretary...

Herbarium curator?

Alright, where's that trusty dictionary? Herbarium -- a collection of dried plants mounted and labeled for use in scientific study. OK. Curator -- administrative director of a museum, library, or other similar institution.

Sounds simple enough. He's a little plump plant man with glasses at the end of his hawk nose, right?

But "Caroline" doesn't sound like the name of a hawk-nosed Mr. Wizard. In fact, he doesn't sound like a he at all. This could merit some investigation.



Cut and dried -- Gathering and preserving flowers and plants for the University herbarium is no cut-and-dried affair. Herbarium curator and taxonomist Caroline Douglass often has hundreds of specimens to classify scientifically, prepare for preservation, and mount artistically on herbarium paper. The herbarium, located in Jordan Hall, has 20,000 specimens that are used for teaching and research by faculty and students.

Bingo! He is a she. And although herbarium curator Caroline Douglass doesn't resemble a Mr. Wizard, she combines an artistic temperament with a love for botany that results in a wizard-like approach to her profession.

Her entry into the world of plants came about after two years of study in

the fine arts at Winthrop College. When she discovered her interest in botany, she transferred to the University of South Carolina to finish her education in plants.

Douglass says her artistic flair enhances her work as a curator. Plant specimens have to be arranged and mounted on herbarium paper to display as many scientific characteristics as possible and to appeal to the eye. Since her study in art taught her about balance, color and arrangement, she says she feels comfortable preparing specimens for the herbarium.

The herbarium, located in Jordan Hall, has about 20,000 specimens -- "an average-size herbarium," says Douglass -- of flowers or fruits, leaves, and sometimes roots that Douglass and other taxonomists collect on field trips.

"We only take the root if we are fairly sure that there are more of the same plants in that immediate area," she says. "We do not collect rare or endangered species."

The odor of naphthalene lingers in the background as Douglass opens the specimen cabinets to a display of beautiful flowers -- only slightly faded although the dates on some of them go back as far as the 1800s.

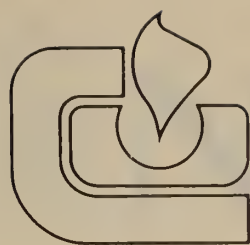
Other specimens are as recent as last week, most of them collected either from field trips or from people in the community who want to know what is growing in their yards, cabbage patches and flower beds.

"We have at least one person a day wanting to have something identified," says Douglass, "and sometimes four or five. I think of this identification as community service in a way."

Yet, people in the community are not the only ones to benefit from the herbarium. Faculty members and students use it for teaching, study and research, and it has become, says Douglass, a valuable service.

Safeguarding the facility is a full-time job. "So many things can destroy a collection like this -- insects, water, fire. There was a fire in the mid-'20s that destroyed a large portion of the herbarium. We are very conscious of all the things that can happen. We fumigate often, don't allow smoking, and we watch for leaks."

Well, Mr. Wizard, so not all curators are short and chubby with glasses or their hawk noses. Maybe we'll save the next page of the directory for another day.



Events

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

*This calendar is prepared up to a month in advance.
Please send in writing to the Department of Publications and Graphics
Services, 103 Fike, any campus event that should be listed. You
may also want to call 656-2467 to check the Internal Communications'
master calendar for possible scheduling conflicts.*

AUG 8 1984

Aug. 10-17

WORKSHOPS AND CONFERENCES

- 14-15 Workshop: "Microcomputer Graphics Programming." Sponsored by Continuing Engineering Education, McAdams Hall. Call 656-3308 for more information.
- 11 Workshop: "All About Alzheimer's." Sponsored by Nursing Continuing Education, Clemson. Call 656-3078 for more information.
- 17-19 First Southeast Regional Wellness Symposium: "Choosing Wellness and Promoting a Healthy Lifestyle." A two-day experiential weekend devoted to learning to live well. Includes camp accommodations, six healthful meals and workshops on health-related topics. Sponsored by Nursing Continuing Education, Clemson Outdoor Laboratory. Fee is \$134, plus \$16 lodging. Call 656-3078 for more information.

EXHIBITS

- Through mid-August "D-Day Remembered," an exhibit depicting, in part, the roles played in the Normandy Invasion by alumni Wright Bryan, journalist and World War II correspondent, and U.S. Sen. Strom Thurmond. Sponsored by Cooper Library, main lobby. Call 656-3024 for more information.
- Through Aug. 31 Summer Show. An exhibition of student work from all departments of the College of Architecture. Sponsored by College of Architecture and the Clemson Architectural Foundation, Monday-Friday, 9 a.m.-4:30 p.m. and Sunday 2-5 p.m. Open to public. Free. Call 656-3081 for more information.

OTHER EVENTS

- 13 Carolina Journal. Horace Fleming, director of the Strom Thurmond Institute, speaks on the Institute's program and its goals. Sponsored by University Relations, S.C. ETV, Channel 29, 7:30 p.m. Call 656-2061 for more information.
- 14 University Housing opens at 10 a.m.
- 15 Student orientation.
- 15 "Beat the Chairman in Pool." Sponsored by University Union, Union game-room, 7:30-10:30 p.m. Call 656-2461 for more information.
- 16 Faculty-staff orientation. Faculty, 8 a.m.-6 p.m. and staff 10 a.m.-6 p.m. Call 656-3022 for more information.
- 16 Clown/Mime Steve Harris. Sponsored by University Union, 11 a.m.-2 p.m., registration lines at Martin Hall. Call 656-2461 for more information.
- 16-17 Registration for fall semester.
- 16-18 Film: "Monty Python and the Holy Grail." Sponsored by University Union, Y-Theater, 7 and 9:15 p.m., \$1.50 with University I.D. Call 656-2461 for more information.
- 16-25 Welcome Week: "Cheap Thrills ... A Good Deal Getting Better." Sponsored by University Union. Call 656-2461 for more information.
- 17-18 Tubing on the Chattooga River. Sponsored by University Union, 9 a.m.-6 p.m., \$6.50. Call 656-2461 for more information.
- 17-19 Minority Reception Weekend for incoming freshmen.



Newsletter

August 15, 1984
Vol 23, No 48

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Aug 15 1984

President's Council hears report on wellness program proposal

President's Council members July 27 heard recommendations for implementing a comprehensive wellness program for University employees, adopted three proposed changes to the Council's constitution, and agreed on meeting dates for 1984-85.

The wellness program proposals were developed by a special committee appointed last September by President Bill Atchley.

Committee chairman Ron Herrin, director of payroll and employee benefits programs, and co-chairman Herlie Hendrix, an associate professor of management, summarized for the Council the committee's report to the president.

The committee recommends the phasing in of a wellness program over a two-year period, beginning with the hiring of a program director.

The program would consist of four emphasis areas: health screening, diet and nutrition, physical fitness, and stress management. There would also be provisions for promoting and evaluating the program and for distributing wellness-related information.

The committee estimates that the first-year cost to the University would be about \$110,000 and that the second-year cost would be around \$92,000.

In other business, the Council adopted, for submission to the president, three proposed changes to its recently revised constitution.

The changes, according to Faculty Senate President David Senn, would bring the stated functions and duties of the Commission on Faculty Affairs in line with the actual responsibilities of the commission, which Senn chairs.

One change would add "evaluation of faculty members, including department heads and administrative officers," to the areas in which the commission may formulate and recommend University-wide policies and procedures.

A second change would add academic advising of undergraduate and graduate students to that list, and the third change would add review and revision of the Faculty Manual to the com-

mission's "areas for consideration."

Arguing against the changes, commerce and industry Dean Ryan Amacher, backed by engineering Dean Charles Jennett, said the proposals would do more than simply update the commission's charge.

Rather, the deans said, the additions would significantly broaden the charge into purely administrative areas or matters that should be left up to the individual collegiate faculties.

The deans cited evaluation of department heads as such an administrative area and said procedures for academic advising should be determined by the colleges.

Senn successfully countered, however, that studying and recommending University-wide policies and procedures does not infringe on administrative freedom or collegiate independence.

And he pointed out that the Council's revised constitution, adopted at the June meeting, places the University committee on academic advising under the Commission on Faculty Affairs. That, he argued, indicates that academic advising ought to be included as one of the commission's "areas for consideration."

In other action, the Council adopted the following meeting dates for 1984-85: Aug. 24, Sept. 28, Oct. 26, Nov. 30, Dec. 21, Jan. 25, Feb. 22, March 29, April 26, May 31, and June 28.

University welcomes new employees

The University welcomes all new employees who have joined the faculty and staff between Aug. 15, 1983, and Aug. 15, 1984. Listed here are those new employees who responded, through their departments or offices, to the letter of invitation to faculty-staff orientation sent out July 11 by Vice Provost Jerry Reel.

Administrative Programming Services

Blue, Lanta, Computer Programmer, B.S., Clemson University.

Gossett, Cathy, Computer Programmer.

Guinn, Barbara, Administrative Support Specialist, B.S., Clemson University.

Hill, Carlos, Computer Programmer; B.A., University of Georgia.

Agricultural Sciences

Arnold, James E., Agricultural Science Associate II, Horticulture Department; B.S., University of Tennessee-Knoxville.

Barefoot, Susan F., Assistant Professor, Food Science Department; AAS, Wilkes Community College; B.S., M.S., Ph.D., North Carolina State University.

Bethea III, A. Victor, County Extension Agent, Marlboro County; B.S., M.S., Clemson University.

Blake, Austin G., Lecturer, Poultry Science Department; B.S., Tuskegee Institute; M.S., University of Nebraska; Ph.D., Michigan State University.

Boswell, John S., County Extension Agent, Florence County; B.A., University of South Florida; M.S., Ph.D., Clemson University.

Brunke, John M., Student Development Specialist III, Extension 4-H & Youth Development; B.S., Western Illinois University.

Campbell, Alice Y., County Extension Agent, Chesterfield County; B.S., University of Tennessee.

Colcolough Jr., James J., Chemist IV, Agricultural Chemical Services; B.S., M.S., Clemson University.

Cubbage, J. Randy, County Extension Agent, Lee County; B.S., Clemson University.

Duncan, C. Russell, County Extension Agent, Clarendon County; B.S., Clemson University.

Edmunds, Patricia M., Computer Programmer II, Agricultural Economics and Rural Sociology Department; B.S., Grinnell College.

Franklin, Ralph E., Head and Professor, Agronomy and Soils Department; B.S.A., M.S., University of Arkansas; Ph.D., Ohio State University.

Griggs, James M., Agricultural Science Associate I, Horticulture Department, Sandhill Experiment Station; B.S., Clemson University.

Harvey, Hilliard G., County Extension Agent, Sumter County; B.S., M.S., Clemson University.

(Continued on page 2.)

(Continued from page 1.)

Hill, Nicholas S., Assistant Professor, Agronomy and Soils Department, Edisto Experiment Station; B.S., University of Wyoming; M.S., Montana State University; Ph.D., Kansas State University.

Kahl, Kandice H., Associate Professor, Agricultural Economics and Rural Sociology; M.E., Ph.D., North Carolina State University.

Luke, Dawson B., Agricultural Science Associate II, Agricultural Economics and Rural Sociology Department; B.S., Clemson University; M.A., Central Michigan University; M.S., Clemson University.

Miller, Karen C., Extension Interior Design Specialist, Home Economics Department; B.S., Bowling Green State University; M.S., Purdue University; Ph.D., University of Tennessee.

Moore, Kathy P., Agricultural Science Associate III, Agricultural Chemical Services; B.A., Bethany College; Ph.D., Clemson University.

Muckenfuss, Adam E., Area Extension Agent, Charleston County; B.S., Clemson University.

Mueller, John D., Assistant Professor, Plant Pathology and Physiology Department, Edisto Experiment Station; B.S., University of Missouri-Columbia; M.S., Ph.D., University of Illinois at Urbana-Champaign.

Owens, Alan D., Chemist I, Agricultural Chemical Services; B.S., M.S., Clemson University.

Oxner, John W., County Extension Agent, Allendale County; B.S., Clemson University.

Reardon, John C., Visiting Instructor, Agricultural Engineering Department; B.S.A., M.S., University of Georgia; MURP, Virginia Tech.

Schwedler, Thomas E., Assistant Professor, Aquaculture, Fisheries, and Wildlife Department; B.S., University of Michigan; M.S., Michigan Technological University; Ph.D., Auburn University.

Shiflett, Richard M., Veterinarian I, Livestock-Poultry Health Division; DVM, University of Georgia.

Sullivan, Marian T., Chemist I, Agricultural Chemical Services; B.S., Notre Dame; M.S., Clemson University.

Thomas, Barbara B., Administrative Specialist B, Coastal Experiment Station.

Thomas, Ronnie L., Assistant Professor, Food Science Department; B.S., Gardner-Webb College; M.S., Ph.D., Clemson University.

Watson, William A. (Tony), County Extension Agent, Edgefield County; B.S., Clemson University.

Wetzel, Michael R., Area Extension Agent, Bamberg County; B.S., U.S. Air Force Academy; M.F., Colorado State University.

Whitwell, Ted, Associate Professor,

Horticulture Department; B.S., University of Tennessee-Martin; M.S., Ph.D., Oklahoma State University.

Architecture

Elrod, Roberta H., Clerical Specialist C, Department of Architectural Studies; B.S., Winthrop College.

Fowler, Kaye W., Clerical Specialist C, Department of Architectural Studies.

Humphries, Ann Chadwell, Visiting Lecturer, Department of Architectural Studies; A.D. in Nursing, Bachelor of General Studies, and Master of Public Administration, University of South Carolina.

Jackson, Major Zorn, AIA, Visiting Lecturer; B.S., The Citadel; M.Arch., Clemson University.

Pearson, Paul David, Dean and Professor, Architecture; B.Arch, Georgia Tech; M.S., Columbia University; Ph.D., University of London Bartlett School of Architecture and Planning.

Business and Finance

Brown, Sandra J., Administrative Specialist A, Bursar's Office.

Link, Judith A., Administrative Specialist A, Bursar's Office.

Payne, Janeat H., Administrative Specialist A, Accounting Control; A.B., Central Wesleyan College.

Sparacino, Thomas A., Accountant, Payroll/Insurance Office; B.S., Clemson University.

Business Services

Glendening, Elizabeth, Personnel Specialist I; B.A., Hillsdale College.

Commerce and Industry

Baker, Robert L., Associate Professor, Accountancy; B.S., U.S. Air Force Academy; M.B.A., Ph.D., University of South Carolina.

Barrett, Robert T., Assistant Professor, Management; B.S., University of North Carolina; M.B.A., East Carolina University; Ph.D., Virginia Polytechnic Institute and State University.

Crino, Michael D., Associate Professor, Management; B.A., State University of New York; M.A., Northern Illinois University; M.S., University of Arkansas; Ph.D., University of Florida.

Dickens, Thomas L., Assistant Profes-

sor, Accountancy; B.A., University of Richmond; M.B.A., Virginia Commonwealth University; Ph.D., Texas A&M University.

Ellison, Michael S., Assistant Professor, Textiles; A.A., Sierra College; B.S., M.A., Ph.D., University of California.

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